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TEAN GOODERS TANK LAND



The Society of the New York Hospital, March, 1898.

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FOURTEENTH ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES, AND DEATHS,

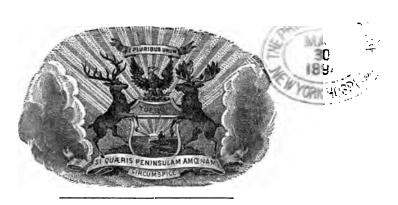
IN

MICHIGAN FOR THE YEAR 1880.

BY THE

SECRETARY OF STATE

STATE OF MICHIGAN.



BY AUTHORITY.

LANSING, MICH.: W. S. GEORGE & CO., STATE PRINTERS AND BINDERS. 1884. YMAMMI BWAI

CONTENTS.

	AGE
	li-¥.
Introductory Letter of transmittal by Secretary of State,	viii.
BIRTHS, MARRIAGES, AND DEATHS:	
Births, Marriages, and Deaths in Michigan during the year 1880, ixx	xiiL
Births, Marriages, and Deaths, and Excess of Births over Deaths for each of the years 1875-1880,	I.
Statements Concerning Births, Marriages, and Deaths in 1875-1880,	xi.
Births, Marriages, and Deaths, and Excess of Births over Deaths per Quarter, Month,	
Week, and Day,	xii.
Births, Deaths, and Excess of Births, by years,	xiii.
Births, and Marriages, and Deaths in Months of Conceptions of the Births, xvi	
	xvi.
•	viii.
	xix.
Population June 1, 1880, and Marriages, Births, Deaths, and Excess of Births over	
Deaths in 1880, by Counties and Sex,	xiii.
BIRTHS:	
In Michigan during the year 1880,	1
Average by Quarter, Month, Week, and Day, as Returned and as Corrected,	2
By Quarters, for each of the Years 1875-1880,	8
By Months, for each of the Years 1875-1880,	4
Corrections for Omissions in Enumeration, and Manner of,	5-10
Relation between Births and Marriages,	1-13
By Countles, by Sex, by Months,	13-20
By Color, by Sex,	22
By Counties, the Relation of the Sexes, the Birth-rate by Sex, and the Number, by Color,	
by Sex,	3-30
By Parent-Nativity,	1-40
By Counties, Parent-Nativity, and Sex,	3-40
Twins,	1-51
Twins, by Parent-Nativity, Color, and Sex,	2-43
Twins by Countles, Parent-Nativity, and Sex,	4-50
Triplet Children, 1880,	51
Occupations of Fathers of Twins,	52
Still-births by Months, Parent-Nativity, Sex, etc.,	2-5 6
Illegitimate Children, by Months, Parent-Nativity, Sex, etc.,	6-60

' VITAL STATISTICS OF MICHIGAN, 1880.

	PAGE
By Counties, the number of Illegitimate and Still-born Children and Twins,	6:
Counties and Townships in which no Births occurred in 1880,	69
Countles and Townships from which no Returns of Births were received for 1880,	63
Sex of Children, by Months of Birth, Months of Conception, as related to Deaths and to	
Illegitimate and Still-born Children, and Twins, by Parent-Nativity,	64-69
, , , , , , , , , , , , , , , , , , , ,	
MARRIAGES	
In Michigan during the Year 1890,	71
By Quarters of the Years 1875-1880, as Originally Returned, and as Corrected for Additional	
Returns,	72
By Months Equalized to Uniform Length, for each of the Years 1876-1880,	74
Diagram of Marriages for each of the Years 1878-1880,	75
By Months, for each of the Years 1877-1880,	73
By Counties, by Months, for the Year 1880,	76-77
By Color, by Sex,	78
By Counties, by Color,	79-81
By Nativity, by Sex,	82-83
By Age, by Sex,	83-84
By Age, by Sex, and Excess of the Sexes,	85
By Counties, Nativity, Sex, and Age,	86-91
By Counties, by Ages under 21 years,	92-94
By Ages in Periods, by Sex,	95
Disparity of Ages,	96-98
By Nativity for Different Foreign Countries, the United States, etc.,	99
By Counties, for each of the years 1874-1880, as first Returned, and as Corrected for Addi-	
tional Returns, and Relation of Marriages in 1880 to Population,	100-103
DEATRS:	
In Michigan during the Year 1880,	104
By Quarters, for each of the Years 1875-1880,	105
By Months, for each of the Years 1875-1880,	106
By Months and Sex for 1880,	107-108
Corrections for Omissions in the Enumeration,	109-113
Diagram of Deaths by Months, as Returned, and as Corrected,	112
By Periods of Age, by Sex,	114
By Age, by Sex, and Excess of Either Sex,	115-116
By Months, by Periods of Age,	117
By Periods of Age, by Sex, by Months,	118-119
By Age, by Sex, by Months,	20-129
Infant Mortality,	29-134
Diagramatic Table of Deaths of Children under One Year of Age,	130-131
Diagramatic Table of Months of Births and Deaths of Children who Died under One Year	
of Age, 1879-1880,	133
Decedents Aged One Hundred Years and Over,	135
Counties and Townships from which no Returns of Deaths were received for 1880, 1	36-137
Counties and Townships in which it is Reported that no Deaths Occurred in 1880,	138
By Counties, Sex, Months, and Periods of Age,	39-151
By Color, Proportion of the Sexes,	152
By Color, by Counties, by Sex	53-155
Sativity and Parent-Nativity of Decedents,	156
ly Counties, by Nativity, by Sex	57-159

CONTENTS. v

CAUSES OF DEATH:	PAGE
Diagram of Deaths from all Causes, and from each Class of Causes, by Months, 1880, .	. 16
Number by Classes, for each of the Years 1876-1880,	16
Number by Classes, by Months, for 1880,	. 16
Seven Groups of Causes for each of the Years 1875-1880,	16-
Geographical Divisions of the State,	. 16
By Divisions of the State, the Per Cent. of Deaths from each Class of Causes,	16
By Counties, by Causes of Death, Classified,	. 168-19
Specified Causes, by Sex, Months, and Periods of Age,	198-24
By Casualties, Specified,	. 246-24
Suicide, Details of, Remarks and Exhibit,	247-24
Principal Causes of Death, Specified, and Details of Special Study of each, 250-25	1, 264-28
Whooping-cough,	252-25
Certain Meteorological Conditions,	. 256-26
All Causes of Death, and Meteorological Conditions,	264-26
Specified Causes of Death, and the Coincident Meteorological Conditions,	. 266-28
Croup and Diphtheria, and Coincident Atmospheric Conditions,	266-26
Deaths from Diphtheria, by Countles, for 1876-1880,	. 270-27
Cerebro-spinal Meningitis, and Meteorology, Coincident with,	273-27
Congestive Chills and Intermittent Fever, and Coincident Meteorological Conditions, .	275-27
Typhoid Fever and Coincident Meteorological Conditions,	. 27
Diarrhea and Coincident Meteorological Conditions,	280-28
Diarrhea and Dysentery, by Geographical Divisions,	. 28
Rheumatism and Coincident Meteorological Conditions,	28
Scarlet Fever and Coincident Meteorological Conditions,	. 28
Consumption,	6, 294-28
Pneumonia, and Coincident Meteorological Conditions,	. 287-28
Pneumonia, by Months, for 1871-1880,	290
Consumption and Pneumonia Correlated,	. 294-29
Consumption, Pneumonia, Typhoid Fever, and Intermittent Fever, by Geographical Divis) -
ions, and by Counties,	. 206-29
Old Age, Decedents Aged 70 years and over, and under 5 years, by Geographical Divisions	J,
and by Counties,	. 300-303
Occupations of Decedents from Consumption,	304-31
Average Age of Decedents and Inhabitants,	. 320-32
Occupations of Decedents aged 20 years and over,	322-37
Alphabetical Index,	. 331-340

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MICHIGAN DEPARTMENT OF STATE, OFFICE OF THE SECRETARY, LANSING, April, 1884.

HON. JOSIAH W. BEGOLE, Governor of Michigan:

SIR:—I have the honor to submit herewith the Fourteenth Annual Registration Report compiled from returns received at this Department for the year ending December 31, 1880. The usual tables given in the reports of previous years are included, with additional items and some new tables, as occasion required, to illustrate the facts presented or statements made.

With the material collected during the decennial period closing with the year 1880, an excellent opportunity is offered to study the groupings of particulars concerning births, marriages, and deaths in Michigan for a given series of years. So far as relates to the population of Michigan there has been undoubtedly a continual increase to the aggregate from year to year. The United States census of 1870 showed Michigan to have a population of 1,334,031, while that of 1880 gives a population of 1,636,937. Yet certain circumstances, often not easily accounted for, perhaps accruing from financial fluctuations, or from causes involving the existence of an unusual prevalence of certain diseases, exert an evident influence upon such conditions as those relating to birth, marriage, and death-rates.

Selecting numbers as returned, there was a larger number of births in Michigan in 1880 than in any previous year of the decennial period ending in 1880. In 1879, however, there was a smaller number of births than in either of the years 1878 or 1876. The per cent. of births, where both parents were native-born Americans, to all births, was greater in 1880 than in any year for ten years, with the exception of the years 1878 and 1879; evidence that does not appear to be indicative of a deterioration of the native American "stock," although, without doubt, many individuals classified as native Americans, having been born in this country, carry the blood and proclivities of other nationalities.

In regard to marriages, the number returned was greater in 1880 than in any preceding year of the decennial period mentioned; yet fewer marriages were solemnized in Michigan in the months of October, November, and December of 1880 than in the same months of the preceding year.

The number of deaths from all causes in 1880, according to the returns, was 16,102, which number, when corrected for probable omissions at the

time of enumeration, is 26,256. The death-rate per one thousand inhabitants, for the latter number, is about sixteen. The deaths among males in 1880 exceeded that of females by 1,235. Of this number there were 520 more deaths among males under one year of age than among females at that period of age, or more than one-third of the excess among all ages was among males under one year of age.

The per cent. of deaths to the whole number, among the native-born, was somewhat less in 1880 than in previous years. While there was a greater number of deaths among all classes than usual from zymotic diseases, there was a marked decrease in the number of deaths from constitutional diseases. It may be remarked, also, that there was a noticeable decrease in the number of deaths by violence. The increase in the number of deaths from zymotic diseases is largely due to the mortality from diphtheria, which was unprecedented in this State during that year. The deaths from this disease comprised 9.6 per cent. of the deaths from all causes. This subject will be found more fully discussed on pages 268 and 269.

Consumption as usual held the first place as a destroyer of human lives in Michigan during the year 1880, diphtheria being second.

That this volume may prove useful to the people of Michigan, and a benefit to mankind in general, is my sincere desire.

Respectfully submitted,

Secretary of State.

BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN,

DURING THE YEAR 1880.

The number of births, marriages, and deaths in Michigan for the year 1880 was considerably in excess of that for any previous year, as can be seen in Exhibit A, where the relation between the births, marriages, and deaths may be studied for each of the years 1875–1880.

The number of marriages returned to the State Department for 1880 exceeds that for 1879 by 408, while the number for 1879 is in advance of that for any previous year. This increase may be accounted for in part from the fact that a copy of the marriage law was mailed to all the ministers and justices of the State during that year; it having been ascertained that many persons authorized to solemnize marriages were neglecting to make a proper return to their county clerk.

The whole number of births in 1880, including still-births, was 35,323, or 1,201 more than the number for 1879. Of this number 18,373 were males and 16,888 females, while 62 were of unknown sex. The only other year, when the number of births returned reached as high as 35,000, was in 1878, when the number was 35,162, or 161 less than the number for 1880. As the population of the State, represented by the returns of births for 1880, was 1,627,307, there was one child born to every 46 persons, and the birth-rate was 27.74 per thousand of the people.

The total number of deaths recorded in the State during the year 1880 was 16,102, of which 8,645 were males and 7,410 were females, while 47 were of unknown sex. The number returned for 1880 is larger by 1,695 than the number reported for 1879. It also exceeds the average annual mortality for the last ten years by 3,574. When we study the causes of deaths for the year we find that this increase is, in part, due to the prevalence of infectious diseases. The very fatal epidemic, diphtheria, has prevailed to a wide extent over the State, the number returned from that disease alone being 1,542, 69 more than reported for 1879.

The natural increase of population, as shown by the excess of births over deaths as returned, was less in 1880 than for any of the previous years, except 1872 and 1874. When the births and deaths are corrected for omissions in

the enumeration, the natural increase of population is less than for any year except 1872. The average excess of births over deaths as returned for the nine years 1872–1880 was 19,673, which shows that the year 1880 was a little less than an average year as regards the natural increase of population.

The average annual increase of population for the nine years 1872-1880 was 1.20 per cent. of the total population of the State, according to the U.S. Census of that year.

EXHIBIT A.—Births, Marriages, and Deaths Returned as having occurred in Michigan during each of the Years 1875 to 1880, inclusive, including those in unknown month, as Returned, and as Corrected for Omissions in the Enumeration.

		1875.	1876.	1877.	1878.	1879.	1880.
Returned.	Marriages	11,851 31,958	11,879 34,235	11,827 33,395	12,786 35,162	13,741 34,122	14,149 35,323
As Re	Deaths	11,990 19,968	12,576 21,659	12,919 20,476	12,766 22,396	14,407 19,715	16, 102 19,221
As Corrected for Omissions.	Births Deaths Excess of Births over Deaths	46,553 17,289 29,264	45,172 18,389 26,783	50,203 18,341 31,962	52,145 18,966 33,279	50,100 20,583 29,517	50,643 26,256 24,387

Corrected, for additional returns, up to May 11, 1882.

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EXHIBIT B.—Statements concerning Births, Marriages, and Deaths in Michigan during the Years 1875-1880, inclusive.

	1875.=	1876.=	1877.4	1878.*	1879 •	1880.
Inhabitants represented by returns of marriages to one marriage	112.40	112.20	112.64	104.33	97.07	115.G
In population represented by marriages, males to one marriage	58.73	58,63	58.86	54.53	50.73	60.95
In population represented by marriages, females to one marriage	53.66	53.57	53.78	49.80	46.34	54.74
returned	41.52	38.56	39.82	37.78	38.76	46.07
Inhabitants, males to each male child returned	41.98	38.86	40.33	38.09	38.90	46.61
Inhabitants, females to each female child returned	41.24	38.38	39.42	37.60	38.71	45.65
Inhabitants represented by deaths to one death	110.25	104.74	102.28	103.32	91.49	100.86
Inhabitants, males to one death of male	107.09	101.84	101.08	103.83	91.53	98.86
Inhabitants, females to one death of female	115.14	100.21	104.51	103.64	91.95	103.84
Deaths, males to 100 females	117.58	117.27	113.03	109.04	109.84	116.67
Births, males to 100 females	107.43	108.05	106.94	108.02	108.83	108.79
Total population of State, males to 100 females	109,47	109,47	109.47	109.47	109.47	111.33
Births to one death	2.67	2.72	2.58	2,75	2.37	2.19
Births, males to one death of male	2.56	2.63	2.52	2.75	2.36	2.13
Births, females to one death of female	2.80	2.85	2.67	2.77	2,38	2.28
Children born of which the sex was unknown or not stated	82,00	56.00	59.00	67.00	48.00	62.00
Decedents of which the sex was unknown or not stated	58.00	59,00	52.00	52.00	37.00	47.00
Natural daily increase of population, as per births and deaths returned	54.71	59,34	56.10	61,35	54.01	52,52
Natural daily increase of population, when returns are corrected as in 4th line of exhibit A, page 6, and exhibit C, page 110	80.17	73.38	87.29	91.17	80,95	66.63

Exhibit B is prepared for the purpose of studying the relations which the births, marriages, and deaths sustain to the inhabitants of the State during each of the years 1875-1880. The population for 1874 was used for the years 1875 to 1879, inclusive, while the population in 1880 was taken in making the computations for that year. It will be seen that the number of inhabitants to one marriage is larger for 1880 than for any previous year, and that the number has decreased since 1875 to 1880, with the exception of the year 1877.

The number of males to 100 females is greater among decedents than among the children born for each of the years 1875-1880, but the difference is less in 1878 and 1879 than for any of the other years. The average for the eight years 1873-1880 for decedents being 114.30, while the annual average for births is 108.20 for the same years, the difference being 6.10.

The natural daily increase of population as per births and deaths returned is about 52 per day, but when the births and deaths are corrected for omissions in the enumeration the number is 66.

a In computing statements for this column, the inhabitants in 1874 were used.
b In computing statements for this column, the inhabitants, June 1, 1880, were used.

c Marriages, corrected for additional returns up to May 11, 1882.

TABLE I .- The number of Marriages, Births, and Deaths, and Excess of Births over Deaths in the State of Michigan during the Year 1880, and the Average Number and Excess during Specified Periods of Time within the Year 1880, as Returned, and the same for Births and Deaths as Corrected for Omissions in the Enumeration.

	PERIODS OF TIME,—1880.	Marriages, 1880.	Births, 1880.	Deaths, 1880.	Excess of Births over Deaths.
	Year, 18904	14,149.00	35,323.00	16,102.00	19,221.00
ned	Quarter	3,537.25	8,830.75	4,025.50	4,805.25
Returned.	Month	1,179.08	2,943.58	1,341.83	1,601.75
A. B	Week	272.10	679.29	309.65	369.64
∢	Day	38 66	96.51	43.99	52.52
a .	(Year, 1880*		50,643.00	26,256.00	24,387.00
6d.	Quarter		12,660.75	6,564.00	6,096.75
BE.	Month		4,220.25	2,188.00	2,032.25
20	Week		973.90	504.92	468.98
Births and Deaths	Day		138.37	71.74	66,63

The facts set forth in Table I. show the number of births, marriages, and deaths for certain specified periods of time. Often-times these results are best understood when given for short periods of time as in this table. It will be seen on examination that the average number of marriages per day for the year 1880 was 38. This number will be increased somewhat when the marriages are corrected for additional returns. When the births and deaths are corrected for omissions which occur in the enumeration, the daily increase of population, as shown by the excess of births over deaths, was about 66 persons per day.

The results obtained in Exhibit 1 show, by months, the number of births. the number of deaths, and the excess of births over deaths for each of the years 1875-1880. The average excess for nine years, 1872-1880, was 19,665, while the excess for the year 1880 was 19,221, showing the year 1880 to be a little less than an average one as regards the natural increase of population. In the average excess for the nine years, the month of December has the largest number, which is also true for the year 1880. The smallest excess in the average occurs for the month of February, while the smallest excess for the year 1880 is in January.

Unknown month included.
 Corrected as if enumerated in months of occurrence.

EXHIBIT 1.—By Months, the Births, Deaths, and Excess of Births over Deaths, according to the Returns, in Michigan during each of the Years 1875 to 1880, inclusive.

								NON	T H 8.					
		TOTAL.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	(Births.	31,808	2,080	2,121	2,415	2,710	2,733	2,530	2,795	3,103	3,081	2,819	2,727	2,856
1875	, Deaths	11,919	736	868	1,045	1,003	1,022	8	893	1,929	1,219	1,080	886	1,065
	Excess of births	19,979	1,353	1,223	1,370	1,707	1,700	1,722	1,832	1,88,1	1,862	1,730	1,799	1,791
	Births	34,131	2,283	2,352	2,744	2,730	2,870	2,739	3,014	3,124	3,110	3,039	2,921	3,205
1576	1576 Deaths.	12,545	685	8	976	978	970	33	1,079	1,507	1,433	1,131	686	1,153
	Excess of births	21,586	1,598	1,552	1,700	1,752	1,900	1,884	1,935	1,617	1,687	1,908	1,932	2,052
	Births	33,324	3,212	2,246	2,600	2,655	 	2,657	2,890	3,227	3,048	3,015	2,847	3,145
1577	1877 Deaths	12,863	992	843	990	826	916	873	1,040	1,559	1,400	1,22,1	1,060	1,155
	Excess of births.	20,461	1,446	1,403	1,700	1,677	1,707	1,782	1,859	1,663	1,648	1,794	1,787	1,990
	Births	33,130	2,201	2,414	2,836	2,937	3,805	2,797	2,835	3,205	3,260	3,266	3,061	3,423
1878	Deaths	12,742	730	082	930	1,099	33	870	1,017	1,371	1,343	1,190	1,181	1,369
	Excess of births	388	1,471	1,623	1,906	1,908	1,882	1,927	1,818	1,924	1,917	2,076	1,880	2,054
	Births	34,092	2,429	2,331	2,758	2,706	2,842	2,626	3,018	3,198	3,149	3,036	2,766	8,233
1879	1879 Deaths	14,366	903	666 6	1,114	1,174	1,083	8	1,183	1,537	1,403	1,236	1,268	1,521
	Excess of births	19,726	1,526	1,339	1,644	1,532	1,739	1,724	1,835	1,661	1,746	1,750	1,498	1,712
	Births	35,323	2,355	2,513	2,850	2,824	2,880	2,772	3,011	3,285	3,278	3,173	3,068	8,273
1.890	Deaths	16,102	98	1,002	1,149	1,289	1,166	1,036	1,527	1,780	1,676	1,43	1,436	1,617
	Excess of births	19,221	1,495	1,511	1,701	1,535	1,714	1,736	1,484	1,505	1,602	1,703	1,382	1,661
Monthly at	Monthly averages of excess for 1872 to 1880, inclusive	19,665	1,395	1,358	1,610	1,560	1,684	1,718	1,740	1,648	1,660	1,722	1,721	1,841

. Unknown month excluded.

In Exhibit 2 the plus and minus signs indicate, respectively, that in the months where they occur the number under the sign is greater or less, as the case may be, than the number for the "Average Month."

Before the births are corrected for omissions, the first six months have less, and the last six months have more, than the average monthly number.

Using the number of births returned, and equalized by months, as the datum, propositions may be made as follows:

- (1.) More than an average number of conceptions occurred in months in which more than an average number of marriages were solemnized, and less than an average number in months in which less than an average number of marriages were solemnized.
- (2.) Less than an average number of conceptions occurred in months in which more than an average number of deaths occurred, and more than an average number of conceptions in months in which less than an average number of deaths occurred.

According to Exhibit 2, there are four exceptions to the first proposition and seven to the second. Proposition 1, therefore, holds true in eight of the twelve instances, and proposition 2 in five. If the births and deaths, corrected for omissions, are thus studied, in connection with marriages, proposition 1 holds true in seven and proposition 2 in six out of the twelve cases.

The various relations which exist between births, marriages, and deaths may, perhaps, be better understood when they are presented for examination as in Exhibit 2. In the first line the births, as returned for the year 1880, are equalized to months of uniform length, while in the second the births are first corrected for omissions and then equalized to months of uniform length. The marriages and deaths, as returned and equalized, the deaths corrected for omissions and equalized, then corrected and equalized for increase of population and equalized to months of uniform length, are given in the months in which the conceptions of births in 1880 probably took place—that is, nine months before the births occurred.

By comparing the first line of births, as they are returned and equalized, with the marriages as equalized, it will be observed that in eight out of the twelve months more than the average number of conceptions occurred in months in which more than the average number of marriages were solemnized, and less than the average number of conceptions occurred in months in which less than the average number of marriages were solemnized. The exceptions being in the months of June, October, November, and December.

When the same line of births is compared with deaths as returned and equalized, it is seen that in seven months of the twelve more than the average number of conceptions occurred in months when more than the average number of deaths occurred, and less than the average number of conceptions in months when less than the average number of deaths occurred.

It thus appears from these comparisons that both marriages and deaths have a great influence on the conception-rate. A large conception-rate seems to be coincident with a large marriage-rate and death-rate.

Now, if we compare the births and deaths, as corrected for omissions and equalized to months of uniform length, it is seen that a large conception-rate seems to attend a small death-rate, and a small conception-rate is attended with a large death-rate, this proposition holding true in ten out of the twelve cases.

•		

Diagram Sto. 1.

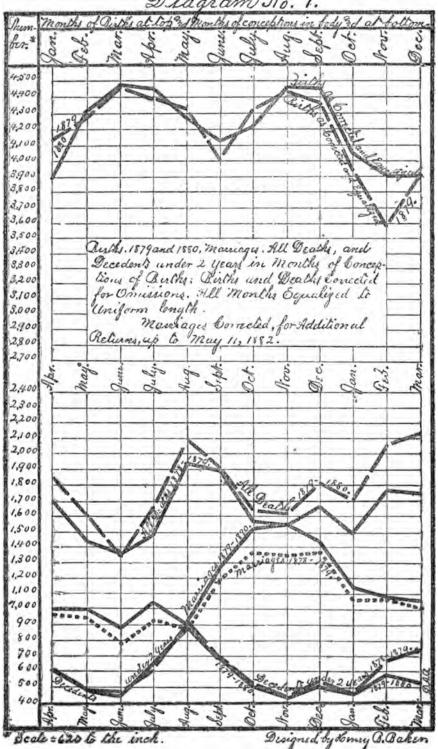


EXHIBIT 2.—Births Returned as having occurred in Michigan, by Months, during the Year 1880, and Marriages and Deaths during Months of Conception of the Births,—all Months Equalized to Uniform length of 30.44 days.

	Total.s					M -	ONTH	8,—1	880.					
	Localia	Jan.	Feb.	Mar.	Apr.	May.	June,	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Av. Mo.
Births, 1880, equal-(ized to months of uniform length	35,211	2,312	2,638	2,799	2,865	2,828	2,813	+ 2,957	+	+	+ 3,116	+ 3,113	+ 3,218	2,93
Births, 1890, correct- ed for omissions in enumerating, and { equalized to months of uniform length.	50,516	3,887	+ 4,322	+ 4,467	+ 4,451	+ 4,272	4,130	4,214	+ 4,461	+ 4,458	4,044	3,907	3,003	4,21
)	IONT	нв,-	1879					1880.		
	Total.a	Apr.	May.	June,	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Av. Mo.
Marriages, equal-(ized to months of uniform length	13,890	- 992	995	 887	1,043	903	+	+ 1,530	+	+	1,133	1,088	1,051	1,15
Deaths, equalized (to months of uni- form length	14,332	1,191	1,063	915	1,162	1,509	+ 1,424	+ 1,263	+ 1,287	+ 1,493	845	1,052	1,128	1,19
Deaths, corrected for omissions in enumerating, and equalized to months of uniform length.	21,448	+	1,600	_ 1,846	1,659	+ 2,091	+ 1,912	- 1,642	- 1,617	+	1,708	+ 2,059	+ 2,137	1,78
Deaths, corrected and equalized, equalized to months of uniform length	21,946	+	_ 1,655	_ 1,380	1,695	+ 2,127	+	- 1,659	1,629	- 1,820	_ 1,779	+ 2,139	+ 2,211	1,82

<sup>Excluding unknown month.
Corrected for additional returns up to May 11, 1882.</sup>

EXHIBIT D.—Grouping the Evidence of the Vital Statistics on the subject of the Comparative Natural Increase of Native and of Foreign-born Inhabitants of Michigan, by Excess of Births over Deaths, according to the Returns, the Evidence Exhibited Covering the Years 1875 to 1880, inclusive.

		1875.			1876.			1877.			1878.			1879,			1880.	
DIRTHS, DEATHS, AND EXCESS OF DIRTHS OVER DEATHS.	.faioT	Both Parents of Chil- dren Native, Deaths of Native-born,	Both Perents of Chil- dren Foreign-born, of Foreign-born,	-InioT	Both Parents of Chil- dren Kative born. of Kative born.	Both Parents of Chil- dren Foreign, Deaths of Foreign-born.	Total.	Both Parents of Chil- dren Native. Deaths of Native-born.	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.	.faioT.	Both Parents of Chil- dren Native, Deaths of Native-born.	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.	.laioT	Both Parents of Children Kative-born.	Both Perents of Chil- dren Foreign. Deaths of Foreign-born.	JaioT	Both Parents of Chil- dren Mative-born. of Mative-born.	Both Parents of Chil- dren Foreign. Deaths of Foreign-born.
Births by parent a 31,958	• 31,958	14,226	11,130	34,235	15,551	11,901	• 33,390	15,270	11,557	a 35,162	16,323	11,992	. 34,122	15,864	1,369	. 35,393	16,274	11,98
Ity by nativ-	b 11,990	9,573	4 2,106	6 12,576	c 10,147	4 2,078	b 12,919	د 10,305	12,251	b 12,766	e 10,183	d 2,237	b 14,407	e 11,495	2,458	b 16,102	e 12,572	4 2,96
over deaths	19,968	4,653	9,014	21,659	5,404	9,823	20,476	4,965	9,306	22,396	6,140	9,755	19,715	4,369	8,911	19,991	3,702	9,020

Includes chains of mixed parentage and those where the nativity of one or both parents is unknown.
 Includes deaths of persons of unknown nativity
 Includes all deaths of persons born in the United States, whether born of native or of foreign-born parents.
 Includes only persons who were born in foreign countries.

EXHIBIT E.—Showing, for the State and Counties of Michigan, the Number of Births and Deaths returned to this Department as having occurred out of Michigan during the year 1880, (Presumably in Families Residing in Michigan).

STATE AND COUNTED	18	80.	COUNTIES.	18	80.
STATE AND COUNTIES.	Births.	Deaths.	COUNTIES.	Births.	Deaths
STATE	486	72	Lake	1	,
Allegan	9	1	Lapeer	8	
Alpena	3	1	Lenawee	9	(
Ваггу	1	1	Macomb	2	1
Bay	13	3	Manistee	2	1
Berrien	8	3	Mason	7	
Branch	2	2	Mecostu	2	1
Calhoun	4		Midland	1	
Cass	7	2	Missaukce	1	
Charlevoix	1		Monroe		3
Cheboygan	8		Montcalm	5	4
Clinton	 	1	Muskegon	16	
Crawford	1		Newaygo	1	
Delta	1	İ	Oakland	2	2
Eaton	6	1	Oceana	5	9
Emmet	1		Osceola	2	1
Genesee	5	2	Ottawa	7	1
Grand Traverse	1		Saginaw	1	
Gratiot		1	Sanilac	13	9
Houghton	7	2	Shiawassee	3	
Huron	6	2	St. Clair	5	9
Ingham	3		St. Joseph	10	9
Ionia	3		Tuscola	1	_
[sabella	4		Van Buren	5	2
Jackson	13	1	Washtenaw	4	1
Kalamazoo	3	3	Wayne	232	ū
Kent	23	3	Wexford	7	2
Keweenaw	1			•	-

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STATE	Port	орстатіом, 1890.	380.			Віктив, 1880.	3, 1880.			В катн	DEATHS, 1880.		Excres (ог Вівтн	EXCESS OF BIRTHS OVER DEATHS.	EATHS.
AND		Sı	SEX.	Marriages,			SEX.				SEX.				SEX.	
COUNTIES.	Total.	Males.	Females.		Total.	Males.	Fe- malez.	Un- known.	Total.	Males.	Fe- males.	Un- known.	Total.	Males.	Fc. males.	Un- known.
STATE	1,636,937	802,335	714,582	14,149	35,823	18,373	16,888	29	16,102	8,645	7,410	47	19,221	87.78	9,478	15
	3,107	1,945	1,162	23	왔	#	æ		21	7	3.		Q.	2	13	
Allegan	37,815	19,732	18,063	328	821	495	98		310	33	157		1119	272	æ	-
Alpenab	8,780	5,161	3,628	9	198	133	127	-	67	31	æ	-	194	102	83	<u>:</u>
Autrim	5,237	2,867	2,370	88	83	12	22		\$	ઢા	82		88	49	8	-
Baraga	1,804	1,036	35	13	21	ĸ	81		71	-	7		37	56	11	
Barry	25,317	13,284	12,033	232	254	247	277		218	100	118		306	147	159	:
Bay	38,061	21,098	16,983	217	1,077	989	491		393	222	170	-	789	364	321	7
Benzie	3,433	1,862	1,571	æ	88	94	88	m	47	ะ	2.4	G1	#	ន	15	-
Berrien	38,785	18,805	17,980	458	049	758	282	-	#£	202	132		306	152	153	1
Branch	27,941	14,240	13,701	7 8	194	238	727	-	252	133	118	-	215	106	901	
Calhoun	38,453	19,509	18,853	355	222	282	263	6	361	185	86	1-	196	100	7 6	2
Cass	22,009	11,350	10,639	250	894	243	253	-	38	88	92	-	305	156	149	
Charlevoix	5,115	2,743	2,372	ន	127	ន	7		17	27	11		88	88	25	i
Cheboyganc	6,524	3,760	2,764	28	161	103	88		25	27	ន		141	76	S	i
Chippewad	5,248	2,906	2,342	8	\$	æ	83		81	13	16		98	8	16	!
Olare	4,187	2,793	1,394	8	25	31	98	-	8	88	\$	1	1-	ဗ	-10	
Clinton	28,100	14,657	13,443	347	187	226	254	-	191	\$	8.	-	230	132	178	1
Crawford	1,159	883	476	ដ	27	61	8 0		4	60	_		ន	91	~	
Delta	6,812	4,179	2,640	88	168	75	8		8	Q	- 2	_	108	- 8	<u></u>	

The figures with the minus sign placed before them indicate the excess of deaths over births.

No returns of births nor deaths from the township of Briley.

No returns of births nor deaths from the township of Briley.

No returns of births nor deaths from the townships of Brild win and Suck Buy.

No returns of births nor deaths from the townships of Brild win and Sack Buy.

No returns of births nor deaths from the township of East Bay.

No returns of births nor deaths from the townships of Plainfield, and no returns of births nor deaths from the townships of Plainfield, and no returns of births nor deaths from the townships of Plainfield, and no returns of births from the townships of Plainfield, and no returns of births nor deaths from the township of Springfield,

No returns of births nor deaths from the township of Elk,

No returns of births nor deaths from the township of Elk,

TABLE II.—Continued.

	Popu	OPULATION, 1880.	.080			Вінтив, 1880.	, 1880.			DEATES, 1880.	5, 1880.		EXCRSS	EXCESS OF BIRTHS OVER DEATHS, A	SOVERD	EATHS.
COUNTIES.		ŝ	SEX.	Marriagos,			SEX.				SEX.				SEX	
	Total.	Males,	Females.	rssa.	Total.	Males.	Fe- males.	Un- known.	Total.	Males.	Fe. males.	Un- known.	Total.	Males.	Fc- males.	Un- known.
Eapeer	30,138	15,827	14,311	247	612	æ	38		83	#	28		373	185	28	
Lecianawb	6,253	3,388	2,865	88	171	ž	28		97	21	9		7.4	왏	\$	
Lenswee	48,343	24,281	24,062	9£	181	373	386		370	961	170	-	391	185	202	-1
Livingston	22,251	11,620	10,631	191	998	165	199	63	169	7.	₹	-	197	16	105	1
Mackinac	2,908	1,689	1,213	ន	19	88	ន		x	33	=		38	11	∄	
Macomb	31,627	16,157	15,470	252	624	322	88		926	138	118		88	187	181	
Manistee	12,532	6,969	5,563	101	422	ž	194		8	88	8	!	88	173	158	
Manitou	1,334	718	616	1	25	80	16		11	*0	9		13	က	9	:
Marquetted	25,394	14,760	10,634	157	240	202	345		33	89	#		406	202	201	
Mason,	10,065	5,659	4,406	107	82	901	11		97	8	33		88	9#	9	
Mecosta	18,973	7,626	6,347	331	ĸ	136	109		156	88	28	-	79	88	4	3
Menominee	11,987	8,000	3,987	951	134	79	28		127	100	22		7	<u>e-</u>	क्ष	
Midland	6,893	3,780	3,113	8	7.1	88	16		94	8	æ	ì	86	27	23	
Missaukee	1,553	843	611	E	8	88	ន	-	=	•	4	-	88	S	13	
Monroe	33,624	17,250	16,374	314	821	0£ 7	391		360	194	166		461	338	225	
Montcalm	33,148	18,321	14,827	88	613	324	285	es	819	168	151		293	156	137	60
Muskegon	38,586	14,784	11,802	88	989	313	316	-	88	147	141		342	106	175	1
Newaygo	14,688	8,376	6,312	132	ឌ	114	117		168	84	8		æ	22	8	
Oakland	41,537	21,827	20,210	88	28	293	588	9	83	180	147	89	828	113	251	69
Oceana	11,669	6,444	5,265	ш	270	181	106		131	12	28		139	88	22	
Ogemaw	1,914	1,168	146	9	ឌ	71	6	_ _ _	16	_ 6	-	_	-	 	C1	_

BIRTHS, MARRIAGES, AND DEATHS.

Ontonagon	2,565	1,830	1,230	#	19	98	8	<u> </u>	Q	ន	91		21	2	6	:
Osceola	10,777	6,015	4,762	117	86	150	901	i	166	£	88		<u>61</u>	19	33	•
Oscods	467	188	176	u	x	က	6	i	e1	=	-		9	ça	7	
Otsogo	1,974	1,137	837	8	31	ន	20		20	61	ຕ	i	ş	ដ	2	
Ottawa	33,126	17,472	15,654	270	277	376	397	61	354	187	165	61	421	380	61	
Presque Isle	3,113	1,701	1,413	6	148	88	3	-	72	23	6		124	29	26	-
Roscommon	1,459	1,006	363	10	11	6	æ		16	=======================================	20		-	C,	က	
Saginawb	29,005	31,803	202,72	485	1,875	743	631		783	907	377	i	266	337	254	1
Sanilac	26,341	14,023	12,318	134	738	383	332		306	22	88	i	223	220	273	
Schoolcraft	1,575	1,007	478	7	12	9	Ħ	:	9	9			2		15	
Shiawassoo	27,039	14,248	12,811	98	197	퓲	212	20	808	101	104	အ	253	143	901	63
St. Olair	46,197	23,922	22,275	376	8	473	£ 3	80	414	213	196	9	984	99	227	7
St. Joseph	96,626	13,516	13,110	335	430	₹ S	216		77	110	134		176	₹.	33	
Tuscola	25,738	13,644	12,004	193	537	272	398		300	105	101		:E	167	164	
Van Buren	30,807	15,737	15,030	364	252	233	202		211	116	8		314	117	197	
Washtenaw	41,848	21,250	20,598	333	614	318	202	-	341	28	152	-	273	139	143	
Wayno	166,444	82,917	83,527	1,599	5,227	2,779	2,448		2,437	1,367	1,079	-	2,790	1,422	1,300	-
Wexford	6,815	3,903	গ্র	8	252	711	100	-	8 2	7	44	_	138	28	강	

· The figures with the minus sign placed before them indicate the excess of deaths ever births.

b No returns of deaths from the township of Elmwood.

e No returns of births nor deaths from the townships of Brevort, Hendricks, and Lakefield.

d No roturns of births nor deaths from the township of Richmond.

. No returns of births from the townships of Codarville, Nadoan, and Spaniding, and no returns of deaths from the townships of Ingaliston, Nadoau, and Stephenson.

f No returns of births nor deaths from the township of Home.

s County clerk says there were no marriages in 1890.

h No returns of births nor deaths from the townships of Bridgeport.

No returns of births nor deaths from the townships of Munising and Onota.
 No returns of births nor deaths from the township of Concord, and no returns of deaths from the townships of Liberty and South Branch.

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			-	

BIRTHS, 1880.

The whole number of births whose statistics were returned to the State Department by the county clerks for the year 1880 was 35,323. This is the largest number that has been returned for any year since the registration began, being 1,201 more than for the preceding year. The population of Michigan, according to the U. S. Census of 1880, was 1,636,937. When 9,630 is subtracted, being the number of inhabitants from whom no report of births was received, the number of inhabitants represented by the returns of births is found to be, therefore, 1,627,307. Thus it will be observed that there was one child born to every 46 persons in the State, and 21.74 births to every thousand of the people.

In the following tabular exhibit is shown the per cent. of births returned and the per cent. of births added as correction for omissions for each of the years 1871–1880. It will thus be seen that the year 1880 was about an average one as regards the per cent. of births returned, the per cent. for 1880 being 69.73, while the average per cent. for the ten years 1871–1880 is 68.34:

YEARS.	Per Cent. of Births Returned.	Per Cent. of Births Added as Correction for Omissions.
1871	70.00	42.86
1872	64.95	43.95
1878	76.72	30,84
1874	55,75	79.87
1875	68.61	45.76
1876	75.73	32.04
1877	66.47	50.44
1878	67.41	48.84
1879	68,05	46,91
1880	69.73	48.42
Average for 10 years.	68.34	46.84

The same system of correction for the omissions in the enumeration of births is used for the year 1880 as in previous years. This correction is found to be

necessary in order to get the number of births which probably occurred. It is a well known fact that many births and deaths are not reported to the supervisors and assessors because of the frequent movements of the inhabitants, this being greater in some parts of the State than in others. If the statistics of births and deaths could be obtained immediately after they occur, the facts would be much more reliable, and their value enhanced thereby. It is hoped by the compiler that this fault in the present law will soon be removed. The method of correction has been fully explained in preceding Reports, some of the details of which will be found in Exhibits A, B, C, D, and 3 of this volume. The number of births returned was about 69.73 per cent. of the total number of births which actually occurred for the year 1880. When the number of births returned is increased by 43.42 per cent. of itself we find the number of births which probably occurred is 50,643, and the number of inhabitants to each child born is 32, while the number of births per thousand of the inhabitants to each child born is 31.25. This is undoubtedly nearer the actual figure.

The average number of births per quarter, month, week, and day, both as returned and as corrected for omissions, the number for unknown month being included, may be seen as follows:

PERIODS OF TIME.	Births as Returned.	Corrected as per Exhibit A, 4th line.	Corrected with 46,34 Per Cent.
Per quarter	8,830.75	12,660,75	12,928.00
Per month	2,943.58	4,220,25	4,309.25
Per week	679.29	978.90	994.48
Per day	96.51	138.37	141,29

The relations, which the number of births as returned for the year 1880, and as corrected for omissions in the enumeration, bear to the number of inhabitants in the State according to the U.S. Census, are shown as follows:

	Inhabitants		Births Corrected		of Births bitants.
SEX.	in 1880 Represented by Births in 1880.	Births as Returned.	for Omissions in Enumer- ating.	Births as Returned.	Births Corrected for Omissions
Total	1,627,807	85,828	50,540	2.17	8.11
Males	856,302	18,878	27,814	2.15	8.19
Females Unknown	771,005	16,888 62	23,226	2, 19	8.01

Table I. shows for each of the years 1875–1880 in what season of the year the greatest and the least number and per cent. of births occurred. The usual distribution of births over the four seasons of the year is observed, the latter half of the year being the one of greatest birth-rates. The largest per cent. for the year 1880 is shown for the third quarter,—ending with September,—which holds true for every year, with the single exception of 1878. In every case the first quarter of the year has the least per cent. of births. The lower half of the table was published for the first time in 1876, and is designed to show the number of births for quarters of the year when the births are corrected for omissions in the enumeration. It will be observed that the births are more equally distributed throughout the year when thus corrected, and are undoubtedly nearer the true figures.

TABLE I.—Births by Quarters of the year, Exhibiting the Number and Per Cent. of Totals for the Years 1875 to 1880, inclusive, as Returned, and as Corrected for Omissions in the Enumeration.

TOTALS, AND		1875.		1876.		1877.		187	ઇ.	187	9.	198	0,
	TH WHICH UARTERS END.	Num- ber.	Per Ct. of Total.										
	Totals	81,956	100.00	84,285	100.00	83,895	100.00	85, 162	100,00	84,192	100.00	85,323	100,00
	March	6,625	20.78	7,879	21.55	7,148	21.40	7,451	21.19	7,518	22.08	7,718	21.85
DOE.	June	7,962	24.91	8,839	24.36	7,995	28.94	8,539	24.28	8,174	23.96	8,476	94.00
stur	8ept	8,909	27.88	9,248	27.01	9,174	27.47	9,890	26.70	9,365	27.45	9,574	27.10
A Returned.	Dec	8,402	26,29	9, 165	26.77	9,007	26.97	9,750	27.73	9,085	26,47	9,519	26.95
4	Unknown	60	. 19	104	.30	71	.21	32	.09	80	.09	86	.10
	Average.	7,990	25.00	8,559	25.00	8,849	25.00	8,791	25.00	8,531	25.00	8,831	25.00
ons.	Totals	46,558	100.00	45,172	100.00	50,903	100,00	52,145	100.00	50,180	100.00	50,643	100.00
Omissions.	March	11,074	23.79	10,840	24.00	12,446	24.79	12,742	24.44	12,679	25.29	12,626	24.93
S.	June	12,261	26.84	11,480	25,41	19,748	25,89	18,485	25,76	12,680	25.29	12,808	25.29
	Sept	12,494	26.84	11,858	26.25	13,258	26.41	13,402	25.70	13,227	26.89	13,229	26.12
	Dec	10,664	22.91	10,890	24.11	11,680	23,27	12,534	24.04	11,514	22,97	11,944	23.58
Corrected	Unknown	60	.18	104	.23	71	.14	82	.06	30	.06	86	.07
4	Average.a	11,638	25.00	11,293	25.00	12,551	25.00	13,036	25.00	12,538	25.00	12,661	25,00

^{*} The number in unknown quarter of year included.

TABLE II.—Births during the Years 1875—1880, inclusive, according to the Returns, exhibiting the Number and Per Cent. of Total, by Months, arranged in Order by Number, Months having the greatest number first.

	 	1875.			1876.			1877.			1878.			1879.			1880.	
.8	Months.	Num- ber.	Per Ct. of Total.	Months.	Num. ber.	Per Ct. of Total.	Months.	Num- ber,	Per Ct. of Total.	Months.	Num. ber.	Per Ct. of Total.	Months.	Num. ber.	Per Ct. of Total	Months.	Num- ber.	Per Ct. of Total.
OEDE	Total.	81,968	100.00	Total	387,236	100.00	Total	33,395	100.00	Total	36, 163	100.00	Total	84,122	100.00	Total	35,323	100.00
-	Aug	8,103	9.71	Dec	3,205	9.36	Aug	8,227	9.68	Dec	8,423	.9.73	Dec	8,233	8.47	Aug	8,285	9.30
61	Sopt	3,081	3.64	Aug	8,124	9.13	Dec	3,145	9.43	A u.g	3,296	9.87	Aug	8,198	9.31	Sept	8,278	9.28
89	Dec	2,856	8.94	Sept	8,110	9.08	Sept	3,048	9.13	Oct	8,266	83.88	Sept	8,149	83.	Dec	8,278	88,98
•	0ct	2,819	8.83	Oct	3,089	88.88	Oct	3,015	9.03	Sept	3,260	9.27	Oct	3,036	8.90	Oct	3,173	8,98
•	Nov	2,727	8.53	Jaly	3,014	8.80	July	2,899	89.8	Nov	3,061	8.71	July	8,018	8.8	Nov	3,068	8.69
•	July	2,725	8.63	Nov	2,921	8.63	Nov	2,847	8.53	April	2,937	8.88	Мау	2,842	88.	July	3,011	8.52
7	Мау	2,723	8.53	Мау	2,870	8.38	Mar	2,690	8.0g	Mar	2,836	8.07	Nov	2,768	8.11	May	2,880	8.15
00	April	2,710	8.48	Mar	2,744	8.01	May	2,683	8.03	July	2,835	8.08	Mar	9,758	8.08	Mar	2,850	8.07
۵	June	2,530	7.91	June	2,739	8.00	June	2,657	7.96	May	2,805	1.98	April	2,706	7.93	April	2,824	1.99
2	Mar	2,415	7.58	April	2,730	7.97	April	2,655	28.2	June	2,797	7.95	June	2,626	07.7	June	2,772	28.1
=	11 Feb	2,121	6.64	Feb	2,352	6.87	Feb	2,246	6.73	Fob	2,414	6.87	Jan	2,429	7.18	Feb	2,518	7.11
2	Jan	2,069	6.63	Jan	9,288	6.67	Jan	2,213	8.62	Jan	2,201	6.28	Feb	2,331	6.83	Jan	2,365	6.67
	Unk	8	ë.	Unk	104	8	Unk	11	12.	Unk	88	8	Unk	2	8	Unk	8	8.
	ΑΥ	2,663	88	AV	2,868	88	AV	2,788	8.8	AV	2,930	88	AV	2,844	& %	Αν	2,944	8.8

. Including unknown month.

The number and per cent of births in each month of the year 1880 are shown in Table II. The months are arranged in order, those having the greatest number first. In eight out of the nine years 1872–1880, the months of August and December have the greatest number and per cent. of births, the month of September coming next in order. By reference to marriages by months it will be seen that the largest number of marriages occurred in the months of November and December, 1879. The causes of unequal birth-rate in different months have been very fully discussed by the compiler in "Vital Statistics of Michigan, 1875," pages 4 and 5.

EXHIBIT 2.—Births during the Years 1877 to 1880, inclusive, as Corrected for Omissions in the Enumeration, exhibiting the Number and Per Cent. of Total, by Months arranged in order by Number, Months having the greatest number first.

	1677.			1878.			1879.			1880.		
ei.	MONTUS.	Num- ber.	PerCt. of Total.	Months.	Num- ber.	Per Ct. of Total.	Монтив.	Num- ber.	Per Ct. of Total.	MONTHS.	Num- ber.	Per Ct. of Total.
ORDER.	Total	50,203	100.00	Total	52,145	100.00	Total	50, 130	100.00	Total	50,648	100.00
1	∆ ug	4,666	9.29	April	4,759	9.13	Mar	4,530	9.04	Mar	4,549	8.98
2	Mar,	4,553	4.08	March	4,730	9.07	Aug	4,519	9.01	Aug	4,543	8.97
3	April	4,865	8,69	Aug	4,710	9.03	Мау	4,407	8.79	Sept	4,394	8.66
4	July	4,885	8.63	Sept	4,504	8.64	July	4,403	8.78	April	4,887	8.66
5	Мау	4,278	8.52	Мау	4,411	8.46	Apr	4,321	8.62	Мау	4,351	8.59
6	Sept	4,257	8.48	Oct	4,857	8.36	Sept	4,805	8,59	July	4,292	8.48
7	June	4,105	8.18	June	4,265	8.18	Jan	4,213	8.40	Feb	4,118	8.13
8	Oct	4,061	8,09	Dec	4,240	8.13	Oct	4,011	8,00	Oct	4,118	8.13
9	Jan	3,965	7.90	July	4,188	8.03	Dec	3,975	7.93	June	4,070	8.04
10	Feb	8,925	7.82	Feb	4,131	7.92	June	3,952	7.88	Dec	3,975	7.88
11	Dec	3,925	7.82	Nov	8,937	7.55	Peb	3,936	7.85	Jan	8,959	7.82
12	Nov	3,694	7.36	Jan	3,881	7.44	Nov	3,528	7.04	Nov	8,851	7.60
	Unk	71	.14	Unk	32	.06	Unk	30	.06	Unk	36	.07
	Aver'ge .	4,184	, 8.33	Aver'ge .	4,345	8.83	Aver'ge .	4,178	8.83	Aver'ge .	4,220	8.33

a Including births in unknown month.

Exhibit 2 shows the order of the months by number of births when they are corrected for omissions in the enumeration. It is similar in plan to Table II., but it will be seen that the order of the months is not the same. While the months of August, September, and December have the greatest number and per cent. of births in Table II., the months of March, August, and September appear at the head in Exhibit 2. Another fact to be observed in this connection is the more uniform regularity of the number of births in the different months in Exhibit 2.

EXHIBIT A.—Births in Michigan during the Year 1880, as Returned, as Corrected for Omissions in the Enumeration; the same Equalized for Increase of Population during the Year covered by the Returns, and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of a Uniform length of 30.44 days each; also, indicating some of the steps by which these results have been reached. (Still-births and Children of unknown Sex included.)

					٠					•			
						-	Моитнв, 1880.	B, 1880.					
	TOTAL	Jan.	Feb.	Mar.	Apr.	May. June.	June.	July.	γαg.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers Per cent. of births to be added for correction for time elapsing before enumeration. Number of births to be added for above correction.		9,365 68.12 1,604	2,513 63.86 1,605	2,850 59.60 1,699	2,824 56.84 1,563	2,880 51.08 1,471	2,773 46.82 1,296	8,011 42.56 1,281	8,286 89.30 1,258	8,978 84.04 1,116	8,178 89.78	8,068 26.62 783	8,278 21.36 697
Births, if enumerated in months of occurrence	20,607	8,96,	4,118	4,649	4,387	4,351	4,070	4,892	4,548	4,894	4,118	8,861	8,975
Per cent, of births to be added to equalize them to population at close of year. Births to be added to equalize them to population at close of year	1,166	4.21	8.8	3.51	3.16	2.81	130	91	1.78	1.41	1.06	17: 22	8: 4
Births, as corrected, equalized to population at close of year	51,772	4,128	4,277	4,709	4,526	4,473	4,170	4,383	4,623	4,458	4,162	3,878	8,989
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length	98 +	56 + 1.44 75 + 213	+ 1.44	1	+.+ + 68	- 81 - 81	+,44	. 55 57	25 25	+ + + + + + + + + + + + + + + + + + +	25.28	+.44	68
Births, corrected and equalized, equalized to months of uniform length	21,698	4,061	4,489	4,624	4,592	4,892	4,231	4,304	4,304 4,539	4,521	4,097	3,935	3,917

· Excluding 36 in unknown month.

EXHIBIT B.—Births of Males in Michigan during the Year 1880, as Returned, as Corrected for Omissions in the Enumeration; the same Equalized for Increase of Population during the Year covered by the Returns, and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.

						7	Моктнв, 1890	, 1880.	İ				
	TOTAL	Jap	Feb.	Mar. April		May.	May. June. July.		Aug.	Sept.	Oct.	Nov.	Dec.
Births of Males as returned by Registration officers. Per cent. of births to be added for correction for time elapsing before enumeration.	A 18,856	1,234	1,835	1,506	1,502	1,472	1,4%	1,568	1,682	1,673	1,646	1,628	1,690
Number of births to be added for above correction	8,968	3	8	0,00,1	88	978	200	871	超	3	22	89	707
Births of males, if enumerated in months of occurrence	27,338	2,178	8	2,516	2,437	2,318	2,174	2,311	2,407	2,314	2,138	2,086	2,084
Per cent, of births to be added to equalize them to population at close of year	se of	3	8.	1978	8.16	9.81	2.48	1 5	1.78	1	8.	15.	%
Births to be added to equalize them to population at close of year	647	8	88	88	F	8	33	3	9	13	8	23	-
Births of males, as corrected, equalized to population at close of year	27,985	2,271	2,888	3,00,	2,514	2,383	2,237	2,360	2,440	2,361	2,22	2,111	2,101
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.	3	56 + 1.44 -41 + 118	+ 1.44	1 8 T	1. te +		4. 4	8 3	1 7	+ + 8	28 °F	‡. £	25 88
Births of males, corrected and equalized, equalized to months of uniform length.	27,943	83,	2,301	2,567	2,561	9,840	98,4	2,317	1,40	2,346	2,181	9,142	2,063

Excluding 18 births in unknown month.

Births of Famales in Michigan during the Year 1880, as Returned. EXHIBIT C.

						A	MONTHS, 1880.	3, 1880.					
	TOTAL.	Jan.	Feb.	Mar.	Apr.	May.	June.	May. June. July. Aug.		Bept.	Oct.	Nov.	Dec.
Births of Females as returned by Registration Officers. Per cent. of Births to be added for correction for time elapsing before enumeration.	a 16,873	1,119	1,171	1,842	1,818	1,403	1,345	1,442	1,599	1,598	1,522	1,486	1,578
Number of births to be added for above correction.	6,384	88	3	8	83	88	220	882	555	475	28	330	293
Births of Females, if enumerated in months of occurrence	183,83	1,784	1,824	2,040	1,965	2,029	1,895	1,978	2,134	2,078	1,918	1,736	1,871
Per cent. of births to be added to equalize them to population at close of year		18.	88	3.61	8.16	2.81	2.46	2.11.2	1.1	3	1 8	1 5	, %;
Births to be added to equalize them to population at close of year	531	25	٤	22	89	22	47	4	88	8	8	13	t-
Births of Females, as corrected, equalized to population at close of year	887,88	1,869	1,894	2,112	2,017	2,086	1,942	2,030	2,172	2,102	1,988	1,768	1,878
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.	1 19	56 +1.44 34 +94	13.14	28, 28	+ + 2 8	38 88	1 2	% % i	1 25 28	+ 31.4	8 8	1 1 1 1 1 1 1 1 1 1	8 8
Births of Females, corrected and equalized, equalized to months of uniform length	23,743	1,825	1,988	2,074	2,047	2,048	1,970	1,925 1,988 2,074 2,047 3,048 1,970 1,984 -3,133	2,183	2,183	1,903 1,794	1,794	1,844

· Excluding 15 births in unknown month.

EXHIBIT D.—Births of Males and of Females in Michigan during the Year 1880, Corrected for Omissions in the Enumer-

and Equalized. (Births of Onidren of unknown Sex not included.)	include	d.)											
						Ä	ONTH	Моитнв, 1890.					
	LOTAL	Jan. F	- cp.	lar. A	prili.	fay.	June.	Feb. Mar. April. May. June July. Aug. Sept. Oct.	Aug.	Sept.		Nov.	Dec.
Births of Males, if enumerated in mouths of occurrence. Days and hundredths by which the months should be increased or dimin-	a 27,386 2	2,179 2,294		1			2,174	2,311 2,407		2,314		2,096	1,00,5
ished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.	- - - - - - - - -	56 + 1.44 -39 + 114		<u>8</u> 5	* * * *	8 	1 2	\$ 7	8 3	∓	98 °F	+.44	. i 8
Births of Males, corrected and equalized to months of uniform length	27,396 2	2,140	2,408	2,471	2,473	2,276	2,206	2,269	2,364	2,348	2,158	2,127	2,056
Births of Females, if enumerated in months of occurrence. Days and hindredths by which the months should be increased or dimin-	b 23,257	1,784 1,824		2,040	8	1,955 2,029		1,978		2,073	1,918	1,736	1,871
ished to equalize them to months of uniform length	9	-36 + 1.44 -32 + 91	+ 1.4 + 1.6 + 1.0 + 1.0	56 +.4456 +.44 37 +.2937 +.28	2 8 +	8 5		8 8	56 +.43 -80 + 30	# 8 + +	1 1 8 8	÷ ÷	೫ ಗ
Births of Females, corrected and equalized to months of uniform length	23,211 1,752		1,915	3,003	1,88,	1,98	88,	1,928 1,942 9,095 9,103	3,000	9,103	1,583	1,78%	1,837
Births of Males, corrected and equalized to months of uniform length	27,236	2,140	2,408	2,471	2,473	2,276	2,206	98	38 6	2,348	2,158	2,127	2,036
Births of Males and of Females, corrected and equalized to months of uniform length.	50,507	3,892 4,	888	4,323 4,474 4,457 4,268 4,129	13,	- 88,	81,	4,211 4,459 4,451 4,041	4,439	1,451		8,900	3,493
Males to 100 Femalos, Births corrected and equalized to months of uniform length	811	84	38	12	न्	F	1	125 125 126 116 117 118	13	112	112 115	1 8	118

· Excluding 18 births in unknown month.

b Excluding 16 births in unknown month.

EXHIBIT 3.—Births in Michigan during the Year 1880, Corrected for Omissions in Enumerating and Equalized for Months of a uniform length of 30.44 Days each. (Still-births and Children of unknown Sex included.)

						H	ONTHE	Моктнв, 1880.					
•	TOTAL	Jan. Feb. Mar. April. May. June, July. Aug. Sept. Oct. Nov. Dee.	- i	ler.	prd.	Y S	dne.	July.	Aug.	Sept.	Oct.	Nov.	Dee.
Births, if enumerated in months of occurrence	a 50,607	926	811	93	1,887	4,351	070,	4,292	4,543	4,794	4,118	3,861	8,975
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.		56 +1,4455 +.4456 +.445656 +.4456 +.445675 +.445675 +.445675 +.445675	* 8	S &	+ + + +	1 25 P2	1 ÷ ÷	25 PE	1 8 8 8 8	+ + 64	1 28	+ + + + + + + + + + + + + + + + + + + +	- 55 - 27
Births, corrected and equalized to months of uniform length	50,516 5,887 4,832 4,467 4,451 4,272 4,130 4,214 4,461 4,456 4,044 3,907 8,903	1,887	25.5	1,467	1,451	4,272	4,130	4,214	4,461	4,458	4,04	3,907	8,903

. Excluding 36 births in unknown month.

during the year 1880, are shown in Exhibits A, B, C, D, and 3. In the first line of Exhibit A the births are given as they Some of the details of the correction which is used to ascertain the probable number of births that occurred in Michigan are returned to the State Department by the registration officers. In the second line is the per cent. of births to be added for correction for time elapsing before enumeration. Those who wish to examine critically the accuracy of this per cent. and the methods employed in obtaining it can do so by reference to "Statistics of Michigan, 1870," and Vital Statistics of Michigan, 1871, pages 10-13.

TABLE III.—Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1880, and the Marriages solemnized in the Months of the Years 1879 and 1880, in which the Conceptions probably occurred. (Births and Marriages in unknown month excluded.)

	80.44 DAYS BACH, I	N ORDER I	RED IN 1880, EQUALIZED TO MON BY NUMBER, GREATEST FIRST.		Number o Marriage from Apri 1879, to Mar
	Вівтна.		CONCEPTIONS.		1880, equa ized to Months o
	Year and Months.	Number.	Months.	Year.	30.44 day each.b
Yea	r	85,211			18,89
· ·	September	8,326	December	1879	1,48
be v	August	8,226	November	1979	1,55
than the Av of Births.	December	3,218	March	1880	1,06
o th	October	3,116	January	1890	1,18
More No.	November	3,118	February	· 1880	1,08
A	July	2,957	October	1879	1,58
۸v	erage	2,984			1,15
No.	April	2,865	July	1879	1,04
٠	May	2,828	August	1879	90
n the A. Births.	June	2,813	September	1879	1,27
of B	March	2,799	June	1879	88
	February	2,638	May	1879	99
Less	January	2,812	April	1879	99

Table III. affords an opportunity for studying the relation between the number of births returned and the number of marriages which were solemnized in the months in which the conceptions of births occurred. The proposition that more than an average number of conceptions appear for months in which more than an average number of marriages were solemnized, and less than an average number of conceptions in months in which less than an average number of marriages were solemnized holds true in eight out of twelve months. The exceptions being in the months of January, February, March, and September of marriages. These facts tend to prove, as the same results are shown for previous years, the great influence which the marriage-rate has upon the birth-rate; that a larger than average marriage-rate is followed by a larger than average birth-rate, and vice versa.

a Excluding births in unknown month.
b Corrected up to May 11, 1882.
c Exceptions to the statement that more than the average number of conceptions appear for months in which more than the average number of marriages were solemnized, and less than the average number of conceptions in months in which less than the average number of marriages were solemnized.

EXHIBIT E.—The Relation between the Births in Michigan during the Year 1880, Corrected for Omissions in Enumerating, and the Marriages solemnized in the Months of the Years 1879 and 1880, in which the Conceptions probably occurred. (Births and Marriages in unknown Month excluded.)

Biri	AND EQUALIZED TO M	ONTHS OF	MERATED IN MONTHS OF OCCUR UNIFORM LENGTH, IN ORDER B' CATEST FIRST.	RENCE,	No. of Marriages from April 1879, to
	Births. *		CONCEPTIONS.		March, 1880 equalized to Months o 89.44 Days
	Year and Months.	Number.	Months.	Year.	each. b
Year	r	a 50,135			13,890
	March	4,467	June	1879	887
÷ .	August	4,461	November	1879	1,551
rtbs	September	4,458	December	1879	1,439
f Bi	April	4,451	July	1879	1,048
More than the Av. No. of Births.	February	4,822	May	1879	995
Mo	May	4,272	August	1879	908
	July	4,214	October	1879	1,580
۸v	erage	4,210			1,158
ا . خ	June	4,130	September	1879	1,278
Less than the A No. of Births.	October	4,044	January	1880	1,133
r Bit	November	3,907	February	1880	1,088
o th	December	3,903	March	1880	1,051
Ne.	January	8,887	April	1879	992

a Unknown month excluded,
b Corrected, for additional returns, up to May 11, 1882.
c Exceptions to the statement that more than the average number of conceptions appear for months in which more than the average number of marriages were solemnized, and less than the average number of conceptions in months in which less than the average number of marriages were solemnized.

The only difference in the construction of Table III. and Exhibit E is that in the latter the births are corrected for omissions in the enumeration and then equalized to months of uniform length. In Exhibit E it will be seen that there are four exceptions to the proposition as stated in foot-note ', and also that these exceptions do not occur in the same months as in Table III., except September. The exceptions in this Exhibit and also in Table III. indicate that there are other causes besides marriages that have an influence upon the birth-rate. By reference to "Vital Statistics of Michigan, 1875," pages 4 and 5, the reader will find an examination of some of these causes and the reasons for them.

TABLE IV.—Exhibiting, by Counties and by Sex, the Number of Children Returned as having been born in Michigan during the Year, and in each Month of the Year ending December 31, 1880. (Still-births included.)

STATE								Mon	THS,	1880					
AND COUNTIES.	Sex.	YEAR, 1880.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	35,323	2355	2513	2850	2824	2880	2772	3011	8285	3278	3173	3068	3278	3
	Males	18,373	1234	1335	1506	1502	1472	1424	1563	1682	1673	1646	1628	1690	1
statea	Females	16,888	1119	1171	1342	1318	1403	1345	1442	1599	1598	1522	1436	1578	,
	Unknown	62	2	7	2	4	5	3	6	4	7	5	4	10	
	Total	32	_1	2	2	4	3	2	2	4	- 5	2	3	2	-
Alcona	Males	14	1		1	2	1	2	1	2	3		1		
7.1.0.10	Females	18		2	1	2	2		1	2	2	2	2	2	
	Total	S21	45	65	60	64	65	82	67	79	75	66	73	80	
Allegan	Males	425	23	36	35	37	37	48	30	37	34	35	33	40	
THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLU	Females	396	99	29	25	27	28	34	37	42	41	31	40	40	-
	Total	261	14	21	28	29	20	23	22	18	23	18	18	26	1
	Males	133	7	6	20	15	8	11	6	9	13	13	8	17	
Alpenab	Females	127	7	15	8	14	12	12	16	8	10	5	10	9	
	Unknown	1	1							1					
	Total	128	7	7	14	14	11	10	14	6	100	13	6	12	
Antrim	Males	71	4	5	9	5	7	5	7	3	10	6	2	8	
	Females	57	3	2	5	9	4	5	7	3	4	7	4	4	
	Total	51	4	5	5	3	4	1	6	3	4	5	8	3	
Baraga	Males	33	9	4	2	2	2	1	4	2	3	4	4	3	
	Females	18	2	1	3	1	2		2	1	1	1	4	- 1	-
	Total	524	28	35	36	45	53	39	41	51	52	35	56	52	-
Barry	Males	247	13	15	15	23	22	21	25	21	22	17	29	23	
outs /	Females	277	15	20	21	22	31	18	16	30	30	18	27	29	
	Total	1,077	75	71	83	68	104	99	97	116	86	85	90	102	
Вау	Males	586	52	42	40	38	56	53	50	63	46	47	53	46	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Females	491	23	29	43	30	48	46	47	53	40	38	37	56	-
	(Total	88	4	3	9	4	8	12	11	11	9	12	3	2	
	Males	46		2	1	9	5	6	7	5	4	8	1	1	
Benzie	Females	39	3	1	5	2	3	5	4	6	5	3	2		
	Unknown	3						1		ď	1	1	10	1	
		640	47	37	44	46	49	49	60	68	57	71	63	48	
	Total	354	23	20	100	22	30	25	31	37	32	35	41	30	-
Berrien	Males	285	24	17	16	24	19	25	29	31	25	36	29	7.7	
	Females		24	11	16	24	19	24	219	31	20	36	22	18	
	Unknown	1			l			****						1	

Except of counties and townships not represented by returns of births in 1880.
 No returns from the township of Briley.

TABLE IV.—CONTINUED.—Births by Counties, by Months, and by Sex.

			}				;	Mon	THS,	1880					
COUNTIES.	SEX.	YEAR, 1880.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	467	33	22	29	46	40	36	48	45	51	46	80	41	
Duranak	Males	239	17	14	12	25	24	17	20	18	86	22	18	21	
Branch	Females	227	16	7	17	21	16	19	28	27	15	24	17	90	
ł	Unknown	1		1											
(Total	557	84	36	44	85	56	57	38	89	46	49	50	53	
Calhoun	Males	285	16	22	21	19	85	23	20	25	29	21	26	28	
Camoun	Females	268	18	14	23	15	20	83	17	82	17	28	21	25	
į	Unknown	9				1	1	1	1	2			8		
!	Total	468	27	23	82	47	50	82	84	45	44	56	49	28	ı
Cass	Males	242	14	12	18	28	26	16	17	28	19	81	27	10	1
	Females	225	13	13	19	19	23	16	17	17	25	25	22	18	
į	Unknown	1					1			••••					
	Total	127	2	6	5	9	15	11	18	17	17	11	8	18	{
Charlevoix	Males	63	2	5	1	5	7	5	9	8	6	7	4	4	
(Females	64	••••	1	4	4	8	6	4	9	11	4	4	9	
	Total	191	11	8	18	17	28	12	20	23	18	12	10	19	
Cheboygan		108	6	8	9	10	13	6	10	16	10	7	5	8	
Ì	Females	88	5	5	9	7	10	6	10	.7	8	5	5	11	
	Total	65	9	7	6	2	9	8	8	2	5	5	6	8	
Chippewab		88	6	2	8	•	7	5	1		5	2	2		
İ	Females	82	8	5	8	2	2	8	2	2		8	4	8	
	Total	62	4	6	8	5	6	8	4	8	6	8	5	4	
Clare	Males	81	2	2	2	4	1	5	2	2	8	4	2	2	
	Females	80	3	4	1	1	5	8	1	3	8	4	8	2	
l	Unknown	1	••••	•					1		•				
	Total	481	19	85	84	38	40	29	42	55 25	48	41 19	58	47	
Clinton	Males	226	9	17	15	22	15	18	21 21	30	18 29	22	84 19	18 29	
	Females	254	10	18	19	16	25	16	31	-	_	22	18	20	
(Unknown	1			••••		••••				1		•	•	l;
	Total	27		1	1	8	2	••••	2	2	4	4	8	4	1
Crawford	Males	19	••••	•	1	8	4	•	1	1	2 2	2	1	4	۱ ۱
	Females	8		1	l i				12	9		14	1 15	10	
	Total	168	10	16	15	20	9	16			14	8	8	18 7	
Deltac-	Males	75	8	8	6	9	5	7	7	4	8		7		l
j	Females	93	7	8	9	11	4	9	5	5	11	6	"	11	

<sup>No returns from the township of Ellis.
No returns from the townships of Detour and Superior.
No returns from townships of Baldwin and Sack Bay.</sup>

TABLE IV.—CONTINUED.—Births by Counties, by Months, and by Sex.

	1							Mon'		1880.					_
COUNTIES.	SEX.	YEAR, 1880.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	(Total	662	35	51	 55	50	52	51	67	 60	 66	54	56	64	<u> </u>
	Males	338	13	25	27	34	25	22	38	26	33	27	34	84	
Eaton	Females	323	22	26	28	16	27	29	29	34	82	27	22	30	1
	Unknown	1									1				
	[Total	138	13	7	10	7	16	18	7	14	10		18	11	8
Emmet	Males	72	7	5	6	6	8	6	4	6	2	7	9	4	2
	Females	66	6	2	4	1	8	7	3	8	8	2	9	7	1
	(Total	689	42	53	54	57	65	55	65	58	57	57	58	66	2
	Males	369	22	29	29	25	87	26	41	35	34	27	81	33	
Genesee	Females	318	20	24	25	32	28	29	24	23	23	80	27	33	
	Unknown	2			_			_							2
	(Total	14	1	2	1	1	1		4	1	1		1	1	
Gladwin	Males	s	1	•	1	1	1		1		1		,		
Grad will assessment	Females	6		2		•	•		3	1	•		•	١	
	(Total	148	16	18	11	15	10	26	11	13	7	6	4	11	
Grand Traverse	i	76	8	5	7	8	6	18	6	6	2	8	4	8	
Grand Traverse	1	67	S	8		7	4	18	5	7	5	3		8	
	(Females	470	26	88	49	48	22	83	49	55	48	31	38	_	
G-sales	Total			23		20	18	18	30	28	16	18	23		
Gratiot	Males	236	14		25	23	9		19	27			15		
	(Females	234	12	15	24		1	20			32	18			1
	Total	500	29	84	81	48	28	43	41	88	72	53	48	36	1
Hillsdale	Males	272	22	18	17	33	11	26	18	22	85	23	25		
	[Females	228	7	16	14	15	17	16	28	16	87	80	23		
	Total	822	60	52	74	59	54	64	85	74	78	93	74	i	
Houghton	Males	492	28	80	88	28	24	46	52	82	39	48	82	80	
	[Females	400	32	22	41	81	80	18	88	49	84	4.5	42	30	
	Total	640	41	39	54	58	58	52	47	61	56	60	50	74	
Huron	Males	313	21	19	24	81	24	28	27	80	28	24	29	88	
	Females	322	20	20	80	22	29	29	20	81	28	36	21	36	
	(Unknown	5					••••							5	
	Total	481	27	81	28	36	46	85	38	41	60	87	572	48	2
Ingham	Males	252	16	14	15	19	23	18	20	23	3 8	18	26	25	2
	Females	228	11	17	13	17	23	22	18	18	22	18	26	28	
	(Unknown	1	i									1			
	Total	656	38	36	58	54	52	45	59	70	78	55	61	55	
Ionia	Males	314	24	18	26	30	24	23	82	28	36	25	25	23	
	Females	340	14	18	27	24	28	22	26	41	42	30	86	32	
	(Unknown	2						<u></u>	1	1					<u></u>

No returns from township of East Bay.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							1	ION	THS,	1880.					
counties.	SEX.	YEAR, 1880.	January.	February.	March.	April.	May.	June.	July.	August.	Beptember.	October.	November.	December.	Unknown.
	Total	102	8	11	12	5	9	6	5	10	11	10	8	7	
Iesco	Males	65	6	6	3	4	8	6	3	5	8	5	5	6	
	Females	87	2	5	9	1	1		2	5	3	5	3	3	
	Total	846	25	81	25	22	42	20	83	30	26	84	24	33	l
[sabella	Males	202	13	15	14	14	29	18	19	18	15	18	13	21	 -
	Females	144	12	16	11	8	13	7	14	12	11	16	11	12	
isle Royalb		 -													
	Total	722	56	41	52	56	47	52	68	86	58	81	66	59	
Jackson	Males	85 8	27	19	34	32	21	24	81	38	29	41	85	27	
JACKBOH	Females	363	29	22	18	24	26	28	37	48	28	40	31	32	
	Unknown	1	•			•				••••	1				
	Total	571	44	38	89	47	39	38	61	54	59	59	41	51	
Kalamazoo	Males	290	23	19	24	25	15	18	33	33	30	26	16	28	
	Females	281	21	19	15	22	24	20	28	21	29	38	25	23	
	Total	80	7	8	3	4	9	2	6	4	7	8	3	4	
Kalkaskac	Males	40	6	3	2	2	6	1	3	1	5	7	3	1	
	Females	20	1		1	2	3	1	3	3	2	1		3	
	Total	1,698	107	128	183	140	138	143	129	143	136	149	167	177	
Fant	Males	890	56	63	71	76	78	74	64	78	66	85	94	94	
Kent	Females	905	51	63	62	63	65	69	65	75	70	64	- 78	83	l
	Unknown	3		. 2		1								••••	
	Total	233	23	15	23	21	18	14	16	24	17	21	22	19	
Keweenaw	Males	141	14	8	17	13	10	10	10	13	10	11	12	18	
	Females	92	9	7	6	8	8	4	6	11	7	10	10	6	
	Total	58		1	7	2	5	s	6	7	6	6	4	6	
Lake	Males	24			4	2	4	1	4	8	1	3		2	
	Females	34		1	3		1	7	2	4	5	3	4	4	
	Total	612	34	43	52	48	41	54	47	64	60	61	42	56	
Lapeer	Males	329	18	24	82	22	25	29	24	34	42	84	22	28	
	Females	288	21	19	20	26	16	25	23	30	27	27	20	28	1
	Total	171	7	13	20	17	20	12	17	15	13	18	18	11	}
Leelanaw	Males	83	8	6	11	11	10	6	7	9	4	6	5	5	
	Females	88	4	7	9	6	10	6	10	6	9	7	8	6	
	Total	761	64	52	41	60	60	59	67	74	74	78	76	60	
Lenawee	Males	375	84	25	20	31	33	29	37	82	36	31	35	81	١.
	Females	386	30	27	21	29	27	30	80	42	38	42	41	29	l

No returns from townships of Plainfield and Wilbur.
 No returns from county clerk to State
 No returns from township of Springfield.
 No returns from township of Elk.

TABLE IV .- Continued .- Births by Counties, by Months, and by Sex.

							1	Mon	rhs,	1880.					
COUNTIES.	SEX.	YEAR, 1890.	January.	February.	March.	April.	May.	June.	July.	August.	Beptember.	October.	November.	December.	Unknown.
	[Total	366	26	26	25	25	32	39	24	30	48	39	20	31	_
Livingston	Males	165	13	13	8	13	18	11	8	17	21	15	11	18	l
	Females	199	13	13	16	11	14	25	16	13	27	24	9	18	
	Unknown	2			1	1									
	Total	61	7	7	6	7	18	4	3	9	2		1	2	
Mackinaca	Males	36	6	δ	4	3	6	3	2	4	1		1	1	
	Females	25	1	2	2	4	7	1	1	5	1			1	١
	Total	624	33	46	48	60	36	59	51	58	56	67	53	54	
Macomb	Males	325	12	25	21	23	22	32	30	30	27	44	82	27	
	Females	299	21	21	27	87	14	27	24	28	29	23	21	27	ļ
	Total	422	29	34	35	40	27	3 8	84	85	40	85	87	38	ļ
Manistee	Males	229	13	21	18	20	10	19	17	27	18	23	21	21	ļ
	Females	194	16	13	17	20	17	19	17	8	22	12	16	17	
	Total	24	1	1	11	3	1	1	1			2	2	1	١.,
Maniton	Males	8	1		1	1		1	1			1	1	1	١
	Females	16		1	10	2	1				Ì	1	1		
	[Total	740	40	49	76	45	76	59	47	57	56	57	84	94	
Marquetteb	Males	395	23	24	42	29	39	26	22	30	28	81	46	55	ļ.,
	Females	345	17	25	34	16	87	33	25	27	28	26	88	39	ļ
	[Total	183	7	14	12	14	23	17	22	17	14	15	14	14	ļ.,
Mason	Males	106	4	6	6	11	13	10	13	8	10	5	18	7	
	Females	77	3	s	6	3	10	7	9	9	4	10	1	7	ļ
	Total	235	19	17	12	24	14	16	20	19	19	21	26	28	ļ
Mecosta	Males	126	10	9	7	12	6	7	15	10	10	12	15	13	ļ
	Females	109	б	8	5	12	8	9	5	9	9	9	11	15	ļ
	Total	134	4	21	11	8	10	10	9	18	18	9	7	14	
Menominee	Males	79	2	14	7	6	8	5	4	10	5	6	5	7	١
	Females	55	2	7	4	2	2	5	5	8	8	3	2	7	
	(Total	174	10	16	16	11	14	13	18	14	22	10	18	12	١
Midland	Males	83	8	9	7	7	4	7	11	4	11	6	9	5	
	Females	91	7	7	9	4	10	6	7	10	ų	4	9	7	1

<sup>No returns from the townships of Brevort, Hendricks, and Lakefield.
No returns from the township of Richmond.
No returns from the townships of Cedarville, Nadeau, and Spaulding.</sup>

^{3-1880.}

TABLE IV .- CONTINUED .- Births by Counties, by Months, and by Sex.

							1	Mon:	rhs,	1880.					
COUNTIES.	SEX.	YEAR, 1880,	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	(Total	50	2	2	4	5	6	4	4	5	4	10		4	
Missaukee	Males	26			2	5	4	1	3	2	2	6		1	
	Females	23	2	2	2		2	3		3	2	4		3	
	Unknown	1							1						
	[Total	821	66	49	64	67	76	61	72	62	77	91	60	75	
Monroe	Males	430	31	32	36	28	42	34	36	37	41	43	32	37	
	Females	391	35	17	28	39	34	27	36	25	36	48	28	38	
	[Total	612	43	56	51	58	46	53	59	61	51	42	46	44	
	Males	324	24	24	25	26	23	27	30	33	29	26	30	26	
Montcalma	Females	285	19	32	26	32	23	26	29	28	20	16	16	17	
	Unknown	3									2			1	
	(Total	630	35	44	72	55	48	44	53	42	74	51	55	57	
10 10 10 10 10 10	Males	313	13	26	36	27	28	18	28	16	40	31	21	29	
Muskegon	Females	316	22	18	36	28	19	26	25	26	34	20	34	28	
	Unknown	1					1								
	[Total	231	16	17	13	13	25	21	23	27	17	16	21	21	
Newaygo	Males	114	7	5	6	6	9	15	14	12	12	8	6	13	
100110000000000000000000000000000000000	Females	117	9	12	7	7	16	6	9	15	5	8	15	8	
	[Total	568	36	48	41	36	58	41	50	50	60	44	54	49	
	Males	293	21	28	21	16	26	27	22	25	30	23	26	28	
Oakland	Females	269	15	18	20	20	31	13	27	25	30	20	28	21	Ĭ,
	Unknown	6		2			1	1	1			1	****		
	[Total	270	9	29	26	23	20	23	21	32	27	22	1500	23	
Oceana	Males	164	5	20	20	16	10	15	12	20	13	12	8	13	
	Females	106	4	9	6	7	10	8	9	12	14	10	7	10	
	[Total	23	1	2	4			1	2	1	7	4	1		
Ogemaw	Males	14	1	2	3			1	1		4	1	1		
-	Females	9			1				1	1	3	3			
	(Total	61		13	6	6	5	4	4	4	2	5	2	5	
Ontonagon	Males	36	1	9	4	5			2		2			4	
10 150 H 100 100 100	Females	25	1 2	4	2		2		2	4		3	1	1	1
	(Total	286	1 7	23	27	1	1	1	32	23	2.10	100	7	19	
Osceola	Males	150	100	17	17	8	20		14	10	1	11	8	7	177
	Females	136	1	6	10	8		10	18	13	1	1 7	8	12	

^{*} No returns from the township of Home.

TABLE IV.—CONTINUED.—Births by Counties, by Months, and by Sex.

							1	Мом	THS,	1880.					
COUNTIES.	Sex.	YEAR, 1880,	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	[Total	8						1	2	4				1	
Oscoda	Males	8	 -						1	1				. 1	ļ
	Females	5		 				1	1	8					
	(Total	81	8	1		2	1	3	4	8	3	1	9	3	
Otsego	Males	23	2	1		2	1	2	2	7	1	1	2	2	
	Females	8	1					1	2	1	2			1	
	[Total	775	57	66	78	67	70	67	61	65	59	68	52	69	1
	Males	376	26	27	39	82	86	84	34	81	28	83	22	84	
Ottawa	Females	397	30	39	84	35	34	33	27	84	31	35	30	85	
	Unknown	2	1											 	;
	(Total	148	14	12	18	12	6	6	13	10	20	14	16	12	
Presque Isle	Males	82	6	8	10	6	8	8	8	5	10	5	12	6	
	Females	65	8	4	8	5	8	3	5	5	10	9	4	6	
	Unknown	1				1								 	<u> </u>
	(Total	17		1	3	2	8	2			1		2		
Roscommon	Males	9		 .	2	1	2)					2	1	
	Females	8		1	1	1	1	1			1			2	
	[Total	1,875	103	93	108	120	115	103	103	145	118	118	112	137	
	Males	743	56	58	62	62	55	54	55	86	62	62	57	74	
Saginaw	Females	631	47	34	46	58	60	49	48	59	56	56	55	63	i
	Unknown	1		,											
	(Total	738	46	68	53	63	66	67	62	74	65	62	55	62	1
Sanilac	Males	383	21	31	29	34	35	31	33	40	30	85	32	32	
Denii Co	Females	355	25	32	24	29	81	36	29	84	35	27	23	30	
	(Total	21	8	1	2		4	4	1	1	3			,	1
Schoolcraftb	1	6	l	1			2		1		1			-	
SOMOOICIAII	Females	15			2		2	4		1	2		••••	2	
	(Total	461	25	28	42	34	29	41	38	56	48	51	29	37	
	Males	244	16	18	19	14	12	28	20	29	21	80	17	19	1
Shiawassee	Females	212	8	9	23	20	17	13	18	27	26	21	12	17	1
	į.	5	1	1	1			13	10		20 1	21		11	ı
	(Unknown	900	48	52	77	71	65	 85	84	83	65	0,	88	85	
St. Clair	Total	472	25	22					l	- 1		94			1
	Males				46	42	30	44	43	51	29	47	46	46	1
	Females	423	23	30	31	29	34	41	40	32	85	46	41	39	2
. [Unknown	5					1		1		1	1	1		

No returns from township of Bridgeport.
 No returns from the townships of Munising, and Onota.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							D	don	rhs,	1880.					
COUNTIES.	SEX.	YEAR, 1880.	January.	February.	March.	April.	May.	June.	July.	Angust.	September.	October.	November.	December.	Unknown.
	(Total	420	28	26	29	32	33	32	38	48	39	33	43	37	9
St. Joseph	. Males	204	14	13	11	13	13	17	19	27	24	15	19	18	,
	Females	216	14	13	18	19	20	15	19	21	15	18	24	19	1
	Total	537	30	27	52	50	35	34	49	52	55	59	39	55	
Tuscola	. Males	272	16	15	30	22	14	17	29	21	27	35	17	29	
	Females	265	14	12	22	28	21	17	20	31	28	24	22	26	
	(Total	525	23	26	31	39	51	42	59	53	51	52	44	54	
Van Buren	. Males	233	8	13	15	19	18	20	22	22	25	26	21	24	
	Females	292	15	13	16	20	33	22	37	31	26	26	23	30	
	[Total	614	27	31	87	41	61	40	48	64	68	66	70	61	
W	Males	318	17	14	20	17	32	18	24	38	31	32	44	31	
Washtenaw	Females	295	10	17	17	24	29	22	24	26	37	33	26	30	
	Unknown	1										1			
	[Total	5,227	443	417	460	414	374	346	404	424	454	450	493	547	1
Wayne	Males	2,779	247	225	245	231	188	176	200	219	241	240	267	299	1
•	Females	2,448	196	192	215	183	186	170	204	205	213	210	226	248	
	Total	227	20	17	15	17	14	17	29	17	25	17	16	23	
	Males	117	10	11	9	7	7	10	14	9	14	9	8	9	
Wexford	Females	109	10	6	6	10	7	7	15	8	11	8	8	13	
	Unknown	1						 						1	

a No returns from township of Concord.

Table V. contains valuable information concerning births by race or color, relation of the birth-rate to sex of children born, and the proportion of births by color to inhabitants. The statistics of inhabitants in 1880, represented by returns of births for the same year, are defective as regards the sex and age of the inhabitants for the different colors. In many instances the sex of inhabitants by townships is not stated, being returned only for counties, hence the exact figures cannot be obtained, and thus the table loses much of its interest. There is no distinction made between Black and Mulatto, and for this reason they must be studied together. It will be seen that the birth-rate among the Black and Mulatto inhabitants is larger than the average for all colors, and the birth-rate among the Indians larger than among the Whites. It will be observed also that the proportion of males is greatest among the Indians and least among the Black inhabitants.

Table VI. is also interesting as showing the number of birth by counties, by color, by sex, the number of males to 100 females, and the per cent. of births, by sex, to population, and to the total of both sexes. The statement of the birth-rate is made for every county in the State except Isle Royal, and of the remaining 77 counties, in 21 counties there was greater than average birthrate, more than average proportion of males; in 13 counties greater than average birth-rate, less than average proportion of males; in 23 counties, less than average birth-rate, less than average proportion of males; in 20 counties, less than average birth-rate, more than average proportion of males. The proposition that a greater than average birth-rate is attended with less than the average proportion of males, and less than the average birth-rate is attended with greater than average proportion of males, holds true in 34 of 67 counties in 1871, in 37 of 68 counties in 1872, in 26 of 69 counties in 1873, in 33 of 68 counties in 1874, in 36 of 72 counties in 1875, in 40 of 74 counties in 1876, in 41 of 73 counties in 1877, in 38 of 74 counties in 1878, in 36 of 73 counties in 1879, and in 33 out of 77 counties in 1880.

Table VI. also shows the distribution, by counties, of color of children born and the number of births returned as unknown color. For 1880, the number returned as unknown color is 115, of which Montcalm county alone has 81.

TABLE V.—Exhibiting, by Color and by Sex, the Number of Inhabitants of Michigan June 1, 1880, the Number of Children returned as having been born in the State during the Year 1880, the Per Cent. of Children born in 1880 to Inhabitants in 1880, the Per Cent. of Children of each Sex to the Total Number of both Sexes, and the Number of Inhabitants to each Child born of the Same Color. (Still-births included.)

COLOR OR RAUE.	SEX.	Population June 1, 1880, Repre- sented by Births in 1880.	Children Born in 1850.	Per Cent. of births of each Color to total of all Colors, by Sex.	Per Cent. of each Sex to Children of both Sexes.	Inhabitants to One Child Born, by Color and Sex.
	(Total	1,627,307	35,323			46.07
All Colors	Males	856,302	18,373		52.11	46,61
All Colors	Females	771,005	16,888		47.89	45,65
	Unknown		62			
	Total	1,605,127	34,856	98,68		46,05
White	Males		18,141	98.74	52.10	
₩ шие	Females		16,676	98.74	47,90	
	Unknown		39	62.90		
1	Total		. 129	.37		
Black	Males		61	.83	47.29	
	Females		68	.40	52.71	
	Total		73	.21	•••••	
Mulatto	Males		39	.21	53,42	
	Females		34	.21	46.58	
	Total	7,087	150	.42		47.11
Indian	Males		81	.45	54,00	
	Females		69	.41	46,00	
II	Total		115	.33		
Unknown color	Males		51	.28	55.43	
OHEROM II COLOL	Females		41	.24	44.57	
	Unknown		23	37.10		
	Total	15,085	202	.57		74.08
Black and Mulatto.	Males		100	.54	49,50	
	Females		102	.60	50.50	

a Includes 28 Asiatics.

TABLE VI.—Exhibiting for the State and Counties of Michigan, by Sex, the Number of Inhabitants in 1880, the Per Cent. of Births Returned for 1880 to Population in 1880, the Number of Males to 100 Females born during the Year 1880, and, by Sex and by Color, the Number of Children Returned as having been born during the Year ending December 31, 1880. (Stillbirths included.)

STATE	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Cor	ов,—Сн	ILDRE	и Вов	n in 1	880,
AND COUNTIES.	Males to 100 Females.	SEX.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1880.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White,	Black,	Mu- latto.	In- dian.	Unk.
	1	Total		1,627,307	2.17	35,323	34,856	ь 129	o 78	d 150	• 115
		Males	52.11	856,302	2.15	18,873	18,141	61	39	81	51
State	109 {	Females.	47.89	771,005	2.19	16,888	16,676	68	84	69	41
	{	Unknown				62	39	ļ			25
	1	Total		3,107	1.03	82	32				
Alcona	78 {	Males	43.75	1,945	.72	14	14	 	 -		
	l	Females	56.25	1,162	1.55	18	18			 -	ļ
	1	Total		37,815	2.17	821	809	5	7		
Allegan	107	Males	51.77	19,782	2.15	425	420	2	3		
	l	Females.	48,23	18,083	2.19	396	389	3	4		
	١٠٢	Total		8,789	2.97	261	261				
Alpena	105	Males	51.15	5,161	2.58	133	133				ļ
Arpens	100]	Females.	48,85	8,628	8.50	127	127				
	į	Unknown				ι	1				
		Total		5,237	2.44	128	127		1		
Antrim	125	Males	55.47	2,867	2.48	71	70		1		
	ί	Females	44.53	2,370	2.41	57	57			·-· ·	
	(Total		1,804	2.83	51	25			f 16	
Baraga	183 {	Males	64.71	1,036	3.19	83	21			12	
	į	Females .	35,29	763	2.34	18	14			4	
	ſ	Total		25,317	2.07	524	524				
Barry	89 -	Males	47.14	13,284	1,86	247	247				
	į	Females.	52.86	12,033	2.30	277	277				
	ſ	Total		38,081	2,83	1,077	1,073	1		3	
Вау	119	Males	54.41	21,098	2.78	586	585	1			
	{	Females.	45.59	16,983	2.90	491	488			3	

[•] For counties and townships from which no returns of births were received, see Table XXI.

• 2 males and 2 females "Colored."

• 1 female "Octoroon."

4 17 males and 28 females White and Indian, 8 males and 1 female half Indian, 1 male three-fourths Indian, and one female "Half-breed."

• 5 unknown sex quintuplets.

† 3 males and 3 females White and Indian, 6 males and 1 female half Indian, and 1 male three-fourths Indian.

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

			Per Ct.	Popula-	Per Ct.	Core	ов,—Спі	LDREN	BORE	1 IN 18	80.
COUNTIES.	Births,— Males to 100 Females.	SEX.	Births of each Sex to Total of both Sexes.	tion in 1880 Rep- resented by Births in 1880.	Births of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
		Total		8,433	2.56	88	88				
Denelo	110	Males	54.12	1,862	2.47	46	46				
Benzie	118	Females.	45.88	1,571	2.48	39	39				
	i	Unknown				8	3				
		Total		36,785	1.74	640	636	2	1		1
Berrien	124	Males	55.40	18,805	1.88	354	352	2			
De111611	123	Females.	44.60	17,980	1.59	285	284		1		
		Unknown				1					1
		Total		27,941	1.67	467	466	1			
Branch	105	Males	51.29	14,240	1.68	239	239				
Sranca	105	Females.	48.71	13,701	1.66	227	226	1			
		Unknown				1	1				
	1	Total		33,452	1.45	557	551	2		1	1
Oalhaua	100	Males	52.01	19,599	1.45	283	282	2		1	
Calhoun	108	Females .	47.99	18,853	1.40	263	263		 		 .
	ļ	Unknown				9	6	j			;
]	Total		22,009	2.13	468	428	12	26		
_		Males	51.82	11,350	2.13	242	221	4	16		:
Cass	108	Females.	48.18	10,659	2.12	225	202	8	10		
	Ì	Unknown				1		 			
	1	Total		5,115	2,48	127	123	1		3	
Charlevoix.	. 98	Males	49.61	2,748	2.50	63	62			1	
	İ	Females.	50.39	2,372	2.70	64	61	1		2	
	ì	Total		6,524	2.93	191	190			b 1	
Cheboygan.	117	Males	53.93	3,760	2.74	103	103				
	1	Females.	46.07	2,764	8.18	88	87			1	
	}	[Total		4,777	1.36	65	86			c 29	
Chippewa	103	Males	50.77	2,621	1.26	83	18			15	
		Females.	49.23	2,156	1.49	82	18		ļ	14	
		Total		4,187	1.48	62	62		 		ļ
61		Males	50.82	2,793	1.11	81	81				ļ
Clare	- 103	Females.	49.18	1,894	2.15	80	30	ļ			
	ı	Unknown	1	1	1	1	1	1	1	ı	1

<sup>For townships from which no returns of births were received, see Table XXI.
I female White and Indian.
I4 males and I2 females White and Indian.</sup>

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Cor	or,—Ch	ILDRE	n Bor	N IN 1	880.
COUNTIES.	Males to 100 Females.	SEX.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1880.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black,	Mu- latto.	In- dian.	Unk.
		Total		28,100	1,71	481	480				1
Clinton	89 4	Males	47.08	14,657	1.54	226	226				
Olimeon	30	Females.	52.92	13,443	1.89	254	254				
	•	Unknown				1			••••		1
·] !	Total		1,159	2.83	27	27				
Crawford	238	Males	70.87	683	2.78	19	19				
		Females	29,63	476	1.68	8	8				
		Total		6,216	2.70	168	166			b I	1
Delta	81	Males	44.64	3,815	1.97	75	74				1
		Females.	55.36	2,401	3. 87	93	92			1	
		Total		31,225	9.12	662	662				
Eaton	105	Males	51.13	16,072	2.10	338	338				
		Females.	48.87	15,158	2.13	323	323				
	i	Unknown			ļ	1	1		••••••		
		Total		6,639	2.08	139	95		1	c 42	
Emmet	109	Males	52.17	3,544	2,03	72	47		1	24	
		Females.	47.83	3,095	2.13	66	48			18	 -
	1	Total		39,220	1.76	689	685	1	1		2
·Genesee	116 -	Males	53.71	20,042	1.84	369	869				ļ
4000000	1.00	Females.	46,29	19,178	1.66	318	316	1	1		
		Unknown				2					9
		Total		1,127	1.24	14	14				
·Gladwin	183 -	Males	57.14	749	1.07	8	8		 		
		Females .	42.86	378	1.59	6	6			ļ	
		Total		7,768	1.84	143	143		ļ		ļ
· G. Traverse	118 -	Malos	53.15	4,235	1.79	76	76				
		Females.	45.85	3,538	1.90	67	67				
		Total		21,936	2.14	470	469	1			
Gratiot	. 101 -	Males	50.21	11,687	2.02	236	235	1			
	i	Females.	49.79	10,249	2.28	234	234				
	1					1	۱	1	i	ı	1.
	i	Total		32,728	1.58	500	498				1 8
Hillsdale	i I	l	54.40	32,728 16,544	1.58 1.64	500 272	498 270				9

a For townships from which no returns of births were received, see Table XXI.
b I female "Half-breed."
c 2 males half Indian.

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	CoL	or,—Ch	ILDRE	o Bor	N JN 1	880.
COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1880.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
	1	Total		22,473	3.66	822	822				
Houghton	106 {	Males	51.34	12,242	3.45	422	422				
	(Females.	48.66	10,231	3.91	400	400	ļ		ļ	
	i f	Total		20,089	3.19	640	632				* 8
Huron	97	Males	49.29	10,714	2.92	313	311			 -	2
M uivii]	Females.	50.71	9,375	3.43	322	321				1
	į	Unknown		••••		5					5
	ſ	Total		33,676	1.43	481	480	1			
Ingham	111	Males	52.50	17,399	1.45	252	252				
Inguam	· · · ì	Females.	47,50	16,277	1.40	228	227	1			
	į	Unknown				1	1				
		Total		33,872	1.94	656	656				
Ionia	92	Males	48.01	17,974	1.75	314	314			ļ. 	ļ
Tonia	"]	Females.	51.99	15,898	2.14	340	840				
	ί	Unknown		•••••		2	2				
	ſ	Total		6,610	1.54	102	102	i		 -	 -
Ioscob	176 ₹	Males	63.73	3,964	1.64	65	65				ļ
	l	Females .	36.27	2,646	1.40	37	37				
	ſ	Total		12,159	2.85	346	345	1			
Isabella	140	Males	58.38	6,602	3.06	202	202				
	l	Females.	41.62	5,557	2.59	144	143	1			
Isle Royal.c							••••				
	ŗ	Total		42,031	1.72	722	715	6			3
Ta alsa	99 ⊀	Males	49.65	21,833	1.64	358	355	3			
Jackson	99 1	Females .	50.35	20,198	1.80	363	359	3			1
	l	Unknown				1	1				
	ŗ	Total		34,342	1.66	571	566	d 5			
Kalamazoo	103	Males	50.79	17,848	1.67	290	287	3			
	1	Females .	49.21	16,999	1.65	281	279	2			
	ſ	Total		2,533	2.37	60	60				
Kalkaskab	200	Males	66.67	1,375	2.91	40	40				
	!	Females.	83.33	1,158	1.73	20	20				Ì

 ⁵ Unknown sex, quintuplets.
 For townships from which no returns of births were received, see Table XXI.
 No returns from county clerk to State Department.
 2 males and I female "Colored."

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Core	or,—Ch	LDRE	v Bor	n in 1	880.
COUNTIES.	Males to 100 Females.	SEX.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1880.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black	Mu- latto.	In- dian.	Unk.
	1	Total		73,253	2.32	1,693	1,685	7	5		,
Kent	111 {	Males	52.51	38,014	2.34	890	884	2	4		
Yent	'''	Females.	47.49	85,239	2.23	805	799	5	1 1	ļ	¦
	l i	Unknown				3	2		ļ		1
	ſ	Total		4,270	5.46	233	233	 -			
Keweenaw.	153 {	Males	60.52	2,396	5.88	141	141	 -			
	Į į	Females.	39.48	1,874	4.91	92	92				
	ſ	Total		3,077	1.88	58	59				
Lake	71 {	Males	41.38	1,819	1.32	24	24	 			
	{	Females.	58.62	1,259	2.70	34	34				
	ſ	Total		30,138	2.03	612	606	1	b 5		
Lapeer	116 {	Males	53.76	15,827	2.08	820	326	1	2		
	į į	Females.	46.24	14,311	1,98	283	280		3		ļ
	ſ	Total		6,253	2.73	171	161		 	10	
Leelanaw	94 -	Males	48.54	3,388	2.45	83	77			6	
	1	Females_	51.46	2,865	3.07	88	84			4	
	ĺ	Total		48,343	1.57	761	754	3	4		
Lenawee	97 ₹	Males	49.28	24,261	1.54	375	370	3	2		
	{	Females	50.72	24,062	1.60	386	384		2		
	ſ	Total		22,251	1.64	366	365	c 1			
T toda on to	83 -	Males	45.33	11,620	1,42	165	165				
Livingston	83 1	Females.	54.67	10,631	1.87	199	198	1			
	· {	Unknown				2	2		•		
	ſ	Total		2,468	2.47	61	34			d 27	
Mackinac	144	Males	59.02	1,395	2.58	36	24			12	
	l	Females_	40.98	1,073	2.33	25	10		•••••	15	
	ſ	Total		31,627	1.97	624	623		1		
Macomb	109	Males	52.08	16,157	2.01	325	324		1		
	l	Females_	47.92	15,470	1.93	209	299	•••••			
	ſ	Total		12,532	3.37	422	422				
Manistee	118	Males	54.03	6,969	8.97	228	228				
	{	Females.	45.97	5,563	8.49	194	194				

a For townships from which no returns of births were received, see Table XXI.
b I female "Octoroon."
c I female "Colored."
d 10 males and 12 females White and Indian.

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Cor	or,—Ch	ILDRE	o Bor	N IN 1	880.
COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1880.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
	(Total		1,834	1.80	24	24				
Manitou	50 ∤	Males	33.33	718	1.11	8	8				
		Females.	66.67	616	2.60	16	16			 	 .
	(Total		24,644	3.00	740	740				
Marquette	114	Males	53.38	14,320	2.76	395	895				 .
	į	Females.	46.62	10,824	8.34	345	845	 			
	1 1	Total	••••	10,065	1.82	183	178			5	
Mason	138	Males	57.92	5,659	1.87	106	104	ļ		2	
	1	Females.	42.08	4,406	1.75	77	74			3	
		Total		13,973	1.68	235	282	1	2		
Mecosta	116	Males	53.62	7,626	1.65	126	126				
	['	Females.	46.88	6,847	1.72	109	106	1	2		
	{	Total		10,627	1.26	134	134				
Menominee-	144	Males	58.96	7,034	1.12	79	79				•
	(Females.	41.04	3,593	1.53	55	55				
		Total		6,893	2 52	174	174				
Midland	91 {	Males	47.70	3,780	2.20	83	88	 		ļ	
	'	Females.	52.30	8,118	2.92	91	91		•		
	1	Total		1,553	3.22	50	50				
Missaukee	113	Males	53.06	942	2.76	26	26				 -
		Females.	46.94	611	3.76	23	23				 -
		Unknown				1	1				
		Total		33,624	2.44	821	820	1			
Monroe	110	Males	52.38	17,250	2.49	430	429	1	•		
	'	Females	47.62	16,874	2.89	891	89 1		•		
		Total		31,166	1.96	612	581				81
Montcalm	114	Males	53.20	17,045	1.90	824	279				4.5
	i 1	Females	46.80	14,121	2.02	285	251		•••••		84
	1	Unknown				3	1				2
		Total		26,586	2.37	630	629	1			
Muskegon	99	Males	49.76	14,784	2.12	313	312	1			
· ·		Females	50 24	11,802	2.68	316	816				
	i	Unknown				1	1				
		Total	 	14,688	1.57	281	231				
Newaygo	97	Males	49.85	8,376	1.36	114	114				
	i 1	Females	50.65	6,812	1,85	117	117	1 1			

[•] For townships from which no returns of births were received, see Table XXI.

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

											
	Births		Per Ct.	Popula-	Per Ct.	Cor	or,—Ch	ILDRE	N Bor	n in 1	S 8 0,
	Males		Births of	tion in 1880 Rep-	Births of each		 1	!	<u> </u>		_
COUNTIES.	to 100	SEX.	each Sex to	resented	Sex to Popula-	Total of		İ			l
	Females.		Total	by Births	tion of	all	White.	Black.	Mu-	In-	Unk.
			of both Sexes.	in 1880.	same Sex.	Colors.			latto.	dian.	0
		Total		41,537	1.37	568	562	4	1		1
Oakland	109	Males	52.14	21,827	1.37	293	291	1	1		
Vakiand	100	Females.	47.86	20,210	1.33	269	266	3			
	1	Unknown	 		 	6	5	ļ. .			1
	1	Total	ļ	11,699	2.31	270	260		 	10	
Oceana	155 -	Males	60.74	6,444	2,55	164	157	 -	 -	7	
		Females	39.26	5,255	2.02	106	103	 		3	
		Total	 	1,914	1.20	23	28	 	·		 .
Ogemaw	156	Males	60,87	1,168	1.20	14.	14	ļ		 	
	1	Females.	89.13	746	1.21	9	9		 -	 -	
		Total		2,565	2.88	61	61				
Ontonagon	144	Males	59.02	1,335	2.70	36	36		ļ		
	1	Females	40.98	1,230	2.03	25	25			ļ	
		Total	•	10,777	2,65	286	286		 -		
Osceola	110	Males	52.45	6,015	2.49	150	150				•
	į į	Females	47.55	4,762	2.86	136	136			ļ	
		Total		467	1.71	8	8		- -		
Oscoda	60 -	Males	87.50	291	1.03	3	8	•			
	۱ ۱	Females	62.50	176	2.84	5	5	ļ			•
		Total		1,974	1.57	81	31	•••••			
Otsego	289	Males	74.19	1,137	2.02	23	23		 -		
	1	Females.	25.81	837	.96	8	8				
		Total		38,126	2.34	775	772			1	2
Ottawa	95 -	Males	48.64	17,472	2.15	376	376	ļ			
		Females	51.36	15,654	2.54	397	396	•		1	
]	Unknown		9 110		2					2
	1	Total	55,78	3,113	4.75	148	147				3
Presque Isle	126	Males Females	44.22	1,701	4.82	82 65	82 65	•••••			•••••
		Unknown	19.22	1,412	4.00		63	•••••			
	'	Total		1,459	1 17	1 17	17				1
Roscommon.	113	Males	52,94	1,096	1.17	17	17 9				
vecommon.	i I	Females	47,08	363	2.20	8	8				
	1	Total	11.00	57,451	2.39	1,375	1,363	11		,	
•	1	Males	54,08	30,902	2.40	743	1 -	11 2		1	
Saginaw	118	Females	45,92	26,549	2.40		740			1	
		Unknown	1	20,049	2.38	631	622 1	9			******
	<u> </u>	Unknown	l	·	l	' 1	1 1	<u> </u>	l	l	<u> </u>

[·] For townships from which no returns of births were received, see Table XXI.

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Births.—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	Corc	ов,—Сні	LDREN	BOR	N IN 18	190.
COUNTIES.	Males to 100 Females.	SEX.	of each Sex to Total of both Sexes.	18%0 Represented by Births in 1880.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black,	Mu- latto.	In- dian.	Unk.
	1	Total		26,341	2.80	738	737	1			
Sanilac	108	Males	51.90	14,023	2.78	883	382	1			
	{	Females	48,10	12,818	2.88	355	355			- -	
	ĺι	Total		885	2.87	21	21				
Schoolcraft.	40 {	Males	28,57	550	1.09	6	6			ļ	
	į į	Females_	71.43	335	4.48	15	15				
	l í	Total		27,059	1.70	461	459		•		2
Ohlamassa	115 {	Males	53.51	14,248	3.71	244	244				
Shiawassee_	110 1	Females	· 46.49	12,811	1.65	212	212			 	
	l	Unknown				5	3				2
	ſ	Total		46,197	1.95	900	900			 -	
Oh Ohain	,,,	Males	52.74	28,922	1.97	472	472				
St. Clair	112	Females	47.26	22,275	189	423	423				
		Unknown	••••		••••	5	5				
	1 (Total		26,626	1,58	420	420				
St. Joseph	94.	Males	48,57	13,516	1,51	204	204				
	{	Females	51.43	13,110	1,65	216	216			 	
] (Total		25,738	2,09	537	537				
Tuscola	108 {	Males	50.65	13,644	1.99	272	272			 -	
	{	Females	49.35	12,094	2.19	265	265				
	,	Total		30,807	1.70	525	522	1	2		
Van Buren	80	Males	44.88	15,757	1,48	233	232		1	 	
	{	Females	55,62	15,050	1,94	29:2	290	1	1		
	1	Total		41,848	1.47	614	601	12	1		
		Males	51.88	21,250	1.50	318	314	8	1		
Washtenaw.	108 4	Females	48.12	20,598	1.43	295	286	9	 	 	
	{	Unknown				1	1			 	
	1	Total		166,444	3,14	5,227	5,166	46	15		
Wayne	114	Males	53,17	82,917	3,35	2,779	2,745	28	6		
	{	Females	46.83	83,527	2.93	2,448	2,421	18	9		
		Total		6,644	3.42	227	226				1
		Males	51.77	8,818	3,06	117	117				
Wexford	107 {	Females	48.23	2,826	3.86	109	109				
		Unknown				1					1
	<u> </u>			<u> </u>	l						

[•] For townships from which no returns of births were received, see Table XXI.

The proportion of children who were born of native and foreign-born parents is shown in Table VII. According to the evidence 46.07 per cent. of all the children born in Michigan during the year 1880, were born of parents who were both native-born, and 33.92 per cent. were born of parents who were both foreign-born. The interest in this table would be very much increased if the number of native and foreign-born inhabitants at the child-bearing or middle ages could be ascertained, but at the present time these statistics cannot be ascertained from the U. S. Census.

TABLE VII.—Exhibiting, by Sex, by Number, and by Per Cent. of Total, the Parent-Nativity of Children Born in Michigan during the Year 1880, according to the Returns.

			тот	AL BI	RTHS, 1	390.		
NATIVITY OF PARENTS OF		Nux	IBER.		P	ER CENT	OF TOTAL	
CHILDREN BORN, 1880.	Total.	Males.	Females.	Unk.	Total.	Males.	Females.	Unk.
All Nativities	35,323	18,378	16,888	62	100,00	100.00	100.00	100.00
Both Parents Native	16,274	8,406	7,838	30	46.07	45.75	46,41	48,89
Both Parents Foreign	11,982	6,234	5,737	11	83.92	33.93	33.97	17.74
Foreign Father and Native Mother	3,967	2,137	1,827	8	11.23	11.63	10.82	4.84
Foreign Mother and Native Father	2,058	1,073	979	6	5.83	5.84	5.80	9,68
Unknown Mother, Father Native	136	59	76	1	.39	.32	.45	1.61
Unknown Mother, Father Foreign	68	31	36	1	.19	.17	.21	1.61
Unknown Father, Mother Native	195	84	110	1	.55	.46	.65	1.61
Unknown Father, Mother Foreign	75	37	38	İ	.21	.20	.23	
Both Unknown	568	312	247	9	1.61	1.70	1.46	14.52
One or Both Native	22,630	11,759	10,830	41	64.07	64.00	64.13	66.13
One or Both Foreign	18,150	9,512	8,617	21	51,38	51.77	51.02	83.87

In Exhibit F the comparison, relative to the parent-nativity of children born in Michigan, is carried through a series of years; the sex, however, is not given as in Table VII. The average per cent. of children who were born of native-born parents for the 10 years 1871-1880 is 45.41; while the average per cent. of children born of foreign-born parents for the same period of years is 34.21. This shows the year 1880 to be a little above the average as regards the children of native-born parents. By tracing the exhibit through the different years, it will be observed that the births of foreign-born parentage maintain about an even ratio, while the births of mixed parentage are progressively increasing. If the births of native and foreign-born parents are compared with the inhabitants of the same nativity, it will be seen that in a population of 1,248,429 persons native-born, there were, in 1880, 16,274 children born; while in a population of 388,508 persons foreign-born, there were, during the same year, 11,982 children born. According to these figures the birth-

rate among the native-born in Michigan in 1880 was 13.00 per 1,000, or one child born to every 77 persons; while the birth-rate among the foreign-born in Michigan in 1880, was 31.25 per 1,000, or one child born to every 32 persons.

When any attempt is made to compare the statistics here set forth, it is necessary to bear in mind certain facts, that among the foreign-born a much larger proportion than of the native inhabitants are of the middle or child-bearing ages; that if all the children born of foreign-born parents in the State were classed with the foreign population this contrast between the birth-rates would greatly disappear.

EXHIBIT F.—Parent-Nativity of Children returned as having been Born in Michigan during each of the Years 1875 to 1880, inclusive.

NATIVITY	18	i5.	187	i6.	18	77.	187	78.	187	79.	186	30.
OF PARENTS OF CHILDREN BORN.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.	Num- ber.	Per Cent. of Total.
All Nativities	31,958	100.00	34,235	100.00	33,395	100.00	85,162	100.00	34,122	100.00	85,323	100.00
Both Parents Native	14,226	44.51	15,551	45.42	15,270	45,73	16,328	46.42	15,864	46,49	16,274	46.07
Both Parents Foreign Foreign Father and Na-	11,120	34,80	11,901	84.76	11,557	34.61	11,992	84.10	11,369	83.82	11,982	33.92
tive Mother	3,246	10.16	8,587	10.48	3,635	10.88	3,861	10.98	3,956	11.59	8,987	11.23
tive Father	1,727	5.40	1,868	5.46	1,948	5.83	1,956	5,56	2,039	5,98	2,058	5,83
One or Both Unknown	1,639	5,18	1,328	3.88	985	2.95	1,030	2,93	894	2,62	1,042	2.95
One or Both Parents	19,199	60,08	21,006	61.36	20,858	62.44	22,140	62.97	21,859	64,06	22,630	64.07
One or Both Parents Foreign	16,093	50.36	17,356	50.70	17,140	51.33	17,809	50,65	17,864	50.89	18,150	51,39
Native	16,309	51.03	17,703	51,71	17,392	52,08	18,489	52.58	18,045	52.88	18,4C8	52.2 8
Father Foreign	14,812	46.35	15,721	45,92	15,813	45.85	15,981	45.45	15,897	45.12	16,017	45.84
Unknown	837	2,62	811	2.37	690	2.07	692	1.97	680	1.99	838	2.87
Native	17,686	55.84	19,347	56.51	19,098	57.19	20,389	57,99	20,024	58.68	20,436	57.85
Mother Foreign	12,961	40.56	13,853	40.46	13,599	40,72	14,032	39.91	18,492	39.54	14,115	39.96
Unknown	1,811	4.10	1,085	8.02	698	2.09	741	2.11	608	1.78	772	2.19

[.] Excluding cases where nativity of either parent is unknown.

Table VIII. shows the nativity of the parents of children born in Michigan in 1880 for the State and also for each county in the State. The number of births, the nativity of whose parents was returned as unknown, was 568, of which number Menominee has 52, Saginaw 71, and Wayne 243.

TABLE VIII.—Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children Born during the Year 1880, and the Parent-Nativity of such Children, so far as stated in the Returns. (Still-births included.)

STATE		Children		! 	Foreign	Foreign	Mor Un			HER VK.	1
AND COUNTIES.	SEX.	Born, 1880,	Both	Both	Father and	Mother and	Fat	her.	Mot	her.	S S
			Native.	Foreign,	Native Mother.	Native Father.	Na- tive.	For-	Na- tive.	For- eign.	Both Unknown.
	Total	35,323	16,274	11,982	3,967	2,058	186	c 68	d 195	75	• 56
Stateb	Males	18,373	8,406	6,234	2,137	1,078	59	81	84	87	81
1	Females	16,838	7,838	5,787	1,827	979	76	36	110	38	24
į	Unknown	62	30	11	3	6	1	1	1		
	Total	32	6	16	5	5					
Alcona	Males	14	2	5	4	3					
	Females .	18	4	11	1	2			 	<u></u>	
ſ	Total	821	490	172	106	89	5	2	2	1	
	Males	425	249	94	60	20	1			ı	
Allegan	Females.	396	241	78	46	19	4	2	2		
1	Total	261	26	161	36	15		1	1		
ļ	Males	133	13	95	14	10		 -			
Alpena	Females	127	13	85	22	5		1	1		
į	Unknown	1		1							
į	Total	128	54	46	23	4			1	 .	ļ
Antrim	Males	71	26	29	13	3				 -	 -
į	Females.	57	28	17	10	1			1		
1	Total	51	19	28	4						
Baraga	Males	33	13	17	3					 	
į	Females	18	6	11	1						
1	Total	524	436	19	48	19)				1
Barry	Males	247	201	7	26	11	1		ļ. .		
į	Females.	277	285	12	22	8					
1	Total	1,077	253	560	156	96			6	4	
Bay {	Males	586	132	306	87	53	•••••		5	2	l
i	Females.	491	121	254	69	43			1	2	
{	Total	88	51	20	11	6					 -
Benzie	Males	46	25	13	6	2					
	Females	89	26	6	4	3					
į	Unknown	3		:	1	1.					

 [&]quot;Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."
 For counties and townships from which no returns of births were received, see Table XXI.
 1 female, mother "America."
 2 males and 2 females "America," and 1 female, father "America."

^{5-1880.}

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

		1	N.	TIVITY	OF PAI	RENTS O	г Сип	DREN	Born	,—1880,	
		Children			Foreign	Foreign		THER VK.		HER KK.	OWE.
COUNTIES.	SEX.	Born, 1880.	Both	Both	Father	Mother and	Fat	her.	Mot	her.	Jukn
		200.	Native.	Foreign,	Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	Both Unknown.
	Total	640	426	105	75	27	1		4		2
Downton	Males	354	248	55	40	10	1		4		1
Berrien	Females.	285	182	50	85	17					1
	Unknown	1	1		 						
	Total	467	389	32	28	13			4		2
Branch	Males	239	193	21	16	6			8		
Бгапоц	Females.	227	195	11	12	7			1		1
l	Unknown	1									1
!	Total	557	398	61	46	21	1		4		26
Calhoun	Males	285	201	33	23	11	1		1		15
Caidoun	Females	263	192	28	23	10			, 3		7
	Unknown	9	5				 -		 		4
!	Total	468	387	25	24	11	14	1	5		1
Cons	Males	242	202	18	12	5	5	1	3		1
Cass	Females.	225	184	12	12	6	9		2		
	Unknown	1	1]							
!	Total	127	57	88	20	9			1		2
Charlevoix	Males	63	27	21	9	4		 	 .		2
i	Females.	64	30	17	11	5			1		
!	Total	191	57	84	30	18	 		 		2
Cheboygan	Males	108	82	47	14	8					2
	Females.	88	25	87	16	10					
!	Total	65	15	31	12	3			1	1	2
Chippewa	Males	33	7	14	7	2				1	2
	Females.	32	. 8	17	5	1			1		
(Total	62	81	11	9	4	5	2			
	Males	81	18	4	4	2	2	1			
Clare	Females.	30	18	7	٨	1	8	1	! 		
į	Unknown	1				1					
1	Total	481	834	64	60	17	2	 	2	1	1
	Males	226	158	26	28	9	2	.	1	1	1
Clinten	Females.	254	175	38	32	8			1		
1	l Unknown	1	1								
		ı	1	1	l	<u> </u>	l	ı	1	1	i

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

TABLE VIII.—Continued.—Births by Counties, Parent-Nativity, and Sex.

			NA	TIVITY	OF PAR	ENTS OF					
		Children			Foreign	Foreign		THER NK.		THER NK.	, i
COUNTIES.	SEX.	Born, 1880.	Both Native.	Both Foreign.	Father and	Mother and	Fat	her.	Mo	ther.	Unknown
			Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- cign.	Na- tive.	For- eign.	Both Both
	Total	27	14	8	1	8				1	
Crawford	Males	19	10	7		1				. 1	
	Females.	8	4	1	1	2					
	Total	168	15	120	17	4	1	1	b 2		• 8
Delta	Males	75	8	47	11	2	1		1		. 6
	Females .	93	7	73	6	2		1	1		8
	[Total	662	555	27	48	25	1	1	1	1	8
	Males	338	275	18	25	17			1		9
Eaton	Females.	323	279	9	23	8	1	1		1	1
	 Unknown	1	1								
	Total	138	86	20	7	8	5		4		8
Emmet	Males	72	48	9	4	4	2		1		4
	Females.	66	38	11	8	4	3		3		4
	Total	689	476	81	76	44	4	1	2	 	5
	Males	369	256	40	42	25	8	 .	1		2
Gonesee	Females.	318	220	41	84	19	1	1	1		1
	 Unknown	2									9
	Total	14	8	7		8					1
Gladwin	Males	8	2	4		1					1
	Females .	6	1	8		2					
	Total	143	68	87	25	12				1	
Grand Traverse	ì	76	38	90	11	6				i	
41444111	Females.	67	30	17	14	6					
·	Total	470	345	38	54	27	3	1		1	1
Gratiot	Males	236	179	18	24	14	١	•	••••		1
	Females.	234	166	20	30	13	3	1	•••••	1	'
	Total	500	452	17	19	7	2	1	2	•	1
Hillsdale	Males	272	246	7	11	3	2		2		
	Females.	228	206	10	8	4	1		-	*****	1
	•	822	55	627	- 1	-				•	
Ifom white-	Total	422	32	- 1	115	21		1	1	•••••	2
Houghton	Males			314	65	10					1
(Females .	400	23	313	50	11		1	1		1

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

b 1 male and 1 female, father "America."

c 2 males and 2 females "America," and 1 female, father "America."

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

COUNTIES. Sex. Born, 1880. Both 1880. Native Foreign Marke Father Mother Father Marke Father Marke Father Marke Father Marke Father Marke Father Marke Father Marke Father Marke Father Marke Father Marke Father Marke Father Marke Marke Father Marke Mark			Children						THER NK.		HER NK.	i i
Huron	COUNTIES.	SEX.	Born,	Both	Both							nkn
Huron. Males			1850.	Native.	Foreign.				For-			Both U
Huron		Total	640	76	417	88	48	2	3	2	2	2
Females 322 32 218 41 25 2 1 2		Males	313	89	199	47	23		2		2	1
Total	Huron	Females .	322	32	218	41	25	2	1	2		1
Ingham	· · · · · · · · · · · · · · · · · · ·	Unknown	5	5								ļ
Ingham	ſ	Total	481	364	82	48	24	2	3	1		7
Females 228 172 12 23 13 2 1 1	_	Males	252	192	19	25	11		2		 	3
Total 636 465 67 78 41 1 1 2	Ingham	Females .	228	172	12	23	13	2	1	1		₄
Males	į	Unknown	1		1							
Total	ſ	Total	656	465	67	78	41	1	,	2		1
Females 340 241 25 46 25	1	Males	314	222	42	32	16	1	1			
Total	Ionia	Females.	340	241	25	46	25			2		1
Total	1	Unknown	2	2			 	<u></u>				<u> </u>
Iosco	ſ		102	19	57	19	6	<u>.</u>		1	 .	
Total 346 215 62 41 21 1 2 2	Iosco		65	12	39	12	2	 			<u></u> .	
Isabella	Į	Females.	87	7	18	7	4	 		1		
Isabella		Total	346	215	62	41	21	1	2	2	<u>.</u>	2
Females 144 90 28 16 7 1 1	Isabella		202	125	34	25	14	1	1	1		1
Total	i		144	90	28	16	7	 	1	1		1
Jackson 722 465 145 63 38 6 1 2 1 Males 358 223 77 34 21 2 1	Isle Royal	b			.			l <u>.</u>				
Jackson Males 358 223 77 34 21 2 1	<u> </u>		722	465	145	63	38	6	1	2	1	1
Jackson Females 363 241 63 29 17 4	i		358	223	77	34	21	2	1			
Unknown 1			363	241	63	29	17	4		2	1	1
Kalamazoo			1									
Kalamazoo Males 290 203 39 21 12 7 1 1 Females 281 192 46 18 11 4 1 3 Kalkaska Total 60 35 11 7 6 </td <td>_</td> <td></td> <td></td> <td>_</td> <td>85</td> <td>39</td> <td>23</td> <td>11</td> <td>1</td> <td>4</td> <td></td> <td>13</td>	_			_	85	39	23	11	1	4		13
Females 281 192 46 18 11 4 1 3	ì			203	39	21	l					7
Kalkaska { Total	· · · · · · · · · · · · · · · · · · ·		281		46	18	ł	l .	1	· ·		6
Kalkaska Males 40 25 6 4 5	•						1					1
Females 20 10 5 3 1	ì						1					· · · ·
Kent	1		ì			1	1					1
Males 890 418 290 103 62 2 7 Females . 805 354 312 77 51 1 6 2			1	1		l 1	1	1	2	13	2	8
Kent	İ		ļ				l				-	6
	Kent			1	l	1	l	1				2
I I i niznowyn i X i X iii i i i i i		Unknown	3	3								•

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown." b No returns from county clerk.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

		Children	-				Mon	HER K.		HEB	ri E
COUNTIES.	SEX.	Born, 1880.	Both	Both	Foreign Father and	Foreign Mother and	Fat	i	Mot		Both Unknown.
		1300.	Native.	Foreign.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	Both
	Total	233	8	187	34	3			1		
Kewcenaw	Malès	141	8	114	16	2			1		
ŀ	Females.	92		73	18	ι					
	Total	58	38	13	4	2		′			1
Lake	Males	24	14	7	2				•••••		1
į	Females.	84	24	6	2	2					
!	Total	612	240	198	100	70			2		2
Lapeer	Males	829	130	111	49	37			1		1
	Females .	283	110	87	51	33			1] 1
(Total	171	38	86	26	12	1	1	1	1	
Leelanaw	Males	83	24	84	14	7	1	1		1] 1
į	Females.	88	14	52	12	5			1		4
(Total	761	529	126	53	26	13	3	6	1	
Lenawee	Males	375	263	66	24	13	6	1	ι		1
	Females.	896	266	60	29	13	7	2	5	1	8
1	Total	366	286	24	36	17	2				:
	Males	165	133	5	21	8					
Livingston	Females .	199	151	19	15	11	2				
	 Unknown	2	2	l	<u> </u>						
ı	Total	61	50	3	2	1			1		١,
Mackinac	Males	36	27	3	1				1		
	Females.	25	23		1	1					
	(Total	624	271	202	90	59			2		
Macomb	Males	325	140	104	47	34					
	Females .	299	131	98	43	25			2		
	Total	422	63	280	52	25			1		
Manistee	Males	228	36	151	31	10			<u>.</u>		
	Females.	194	27	129	21	15		 	1		
	(Total	24	4	17	2	1			•		
Manitou	Males	8	,	6	•	1					
	Females.	16	3	11	2	i .					
	(Total	740	61	632	28	13				2	
Marquette	Males	395	35	335	15	9				1	
-	1		1	1	į.	1					,
	(Females_	345	29	297	13	4				2	

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

		Children	-			1		THER NK.		THER NK.	WD.
COUNTIES.	SEX.	Born,	Both	Both	Foreign Father and	Foreign Mother and	-	her.	-	ther.	nkno
		1880.	Native.	Foreign.	Native Mother.	Native Father,	Na- tive.	For-	Na- tive.	For-	Both Unknown.
	(Total	183	83	51	29	14		1	1	1	3
Mason	Males	106	49	27	18	9		•	 	1	.9
	Females.	77	84	24	11	5		1	1		1
	Total	235	127	65	27	15					1
Mecosta	Males	126	61	40	17	7			 		1
	 Females_	109	66	25	10	8					
	(Total	134	15	55	10	2					52
Menomineo	Males	79	8	33	7	1		 		ļ	30
1	Females	55	7	22	3	1			ļ. 		22
	Total	174	89	54	21	9		1 1			
Midland	Males	83	42	1 29	10	2			 		
,	Females	91	47	25	11	7		1	 		
	Total	50	19	15	5	7		2			2
	Maies	26	9	8	3	6					
Missaukce	Females.	23	10	7	2	1		1			9
	 Unknown	1					•••••	1			ļ. .
	Totai	821	570	118	87	37	1		5		3
Monroe	Males	430	297	59	47	24			2		1
	Females	891	278	59	40	13	1		3		2
	Total	612	881	112	66	42	2	1	2		6
	Males	324	211	53	84	20	1	1	2		2
Montcalm	Females	285	169	59	32	20	1				4
	 Unknown	3	1			2					
	Total	630	209	338	51	29	1		1		2
	Males	318	108	164	26	13					2
Muskegon	Females	316	101	174	25	15	1				
	Unknown	1							1		
	Total	281	148	36	84	18	2		2		1
Newaygo	Males	114	76	16	15	5	2				ļ
1	Females	117	67	20	19	8			2) 1
	Total	568	856	72	57	35	16	9	5		18
	Males	293	187	85	80	19	7	3	1		11
Oakland	Females	269	167	87	25	15	8	6	4		7
	 Unknown	6	2		2	1	1		ł	1	l

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were complied with the "Unknown."

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

			N/	TIVITY	OF PAR	ENTS O	г Сип	DREN	BORN	,—1880	
		Children			Foreign	Foreign		THER KK.		MER NK.	Both Unknown.
COUNTIES.	SEX.	Born, 1886.	Both	Both	Father	Mother and Native	Fat	her.	Mot	her.	Unkn
			Native.	Foreign.	Mother.	Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	Both
	Total	270	191	36	21	18	1		2		1
Oceana	Males	164	117	19	13	11	1		2		. 1
	Females.	106	74	17	8	7		 			
	Total	23	14	6	2	1				 	 -
Ogemaw	Males	14		2	2	1					
	Females	9	5	4					ļ	 -	
	Total	61	12	31	12	5		1			
Ontonagon	Males	36	8	13	9	2		1		i	
	Females	25	4	15	3	8			•••••	 -	 -
!	Total	236	185	91	38	• 24		 -	2		1
Osceola	Males	150	70	46	18	14			1		1
	Females.	136	65	45	15	10			1		
	Total	8	6	1	1						
Oscoda	Males	3	3								
	Females	5	3	1	1						
	Total	31	17	9	4	1				ļ	
Otsego	Males	23	15	5	2	1		•••••		 -	
	Females.	8	2	4	2			•••••			
	Total	775	357	285	77	43	8	8	2	 	5
Ottawa	Males	376	171	142	38	20	1	1			3
V 166 W M	Females.	397	185	142	39	23	2	2	2		2
	Unknown	2	1	1			•••••			ļ	
	Total	148	8	135	4	2	1	2		1	
Presque Isle	Males	82	2	78	3	2	1	2		·	1
I resque reso	Females.	65	1	61	1			9	•		•
	Unknown	1		1							- -
	Total	17	8	5	1	 					3
Roscommon	Males	9	3	3	1			<i></i>			3
	Females	8	5	2			•••••	•	•••••		1
	Total	1,375	434	552	180	123	1	7	b	2	71
Saginaw	Males	743	228	294	107	63		4	2	1	44
Ameline A	Females.	681	206	257	78	60	1	8	8	1	27
	Unknown	1		1				 			

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

TABLE VIII.—Continued.—Births by Counties, Parent-Nativity, and Sex.

				TIVITY	OF PAT	ENTS O	CHI	LDREN	BORN	,—1880	.*
(1011)/mrna		Children			Foreign	Foreign		THER NK.		HER KK.	OWn.
COUNTIES.	SEX.	Born, 1830.	Both Native.	Both Foreign.	Father and Native	Mother and Native	Fat	her.	Mot	her.	Unkn
				orrigin.	Mother.	Father.	Na- tive.	For- eign.	Na- tive.	For- eign.	Both Unknown.
(Total	738	72	464	128	69			3	1	1
sanilac	Males	383	36	241	71	34			1		
ł	Females.	355	36	223	57	35		 -	2	1	
ſ	Total	21	11	6	3	1		 -	 		
choolcraft	Males	6	5	1					 		
į	Females.	15	6	5	3	1		 -	 .		
ſ	Total	461	291	67	51	31	4	b 5	5		
hiawassee	Males	244	161	36	21	18	1	1	3		
	Females.	212	128	30	30	12	3	4	2		
Į	Unknown	.5	2	1		1					ł
ſ	Total	900	231	429	136	91	2	1	3		
	Males	472	105	235	74	50		1	3		İ
t. Clair	Females .	423	125	191	62	41	2		 		l
l	Unknown	5	1	3							
(Total	420	330	56	22	8			1		ļ
t. Joseph	Males	204	163	26	10	4			1		
{	Females.	216	167	30	12	4					
ſ	Total	537	230	161	76	65	1		4		
Cuscola	Males	272	120	73	46	31			2		
	Females.	265	110	88	30	84	1		2		
(Total	525	402	33	50	28	6		5	1	
an Buren	Males	233	173	18	23	15	1		3	<u>-</u>	
l	Females .	29.2	229	15	27	13	5		2	1	
	Total	614	822	145	83	44	2	2	8	4	
İ	Males	318	165	75	45	25	2	2	4	<u>-</u>	
Vashtenaw	Females.	295	157	69	38	19			4	4	
Į.	Unknown	1		1					Ī		
,	Total	5,227	1,195	2,777	626	281	4	3	53	45	24
Wayne	Males	2,779	627	1,476	349	144	3	8	21	24	18
•	Females.	2,448	568	1,801	277	137	1		32	21	11
,	Total	227	124	56	23	11	4	2	2	-1	"
Ì	Males	117	71	24	14	5		1	*		
Wexford	Females.	109	52	32	9	6	4		2		
	Unknown	1	1	"		. "	•	٠,	'		Ι '

a "Native" includes only those born in the United States. Those cases in which the birthplace was returned as "America" were compiled with the "Unknown."

b 1 female, mother "America."

TWIN CHILDREN, 1880.

The number of twin children returned for the year 1880 was 716, of which 341 were males, and 375 were females. More females were returned than males, there being only 91 males to 100 females. The number of pairs of twins is 358, which is the smallest number reported as having been born in this State since 1872. The order of the years 1870–1880, the one having the least number first, is 1871, 298; 1870, 339; 1872, 342; 1880, 358; 1877, 367; 1875, 370; 1879, 402; 1874, 408; 1873, 420; 1878, 427; 1876, 428. The average number for the eleven years is 378, showing the year 1880 to be somewhat less than an average one as regards the number of pairs of twins. In Table IX. the number of twin children and the number of pairs of twins are arranged in order by months, those having the greatest number first. The months of December, October, and July head the list in the order named; while the months of January February, and May have the least number.

TABLE IX.—Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children Returned as having been Born in Michigan during the Year 1880, by Months Arranged in Order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.

	YEAR	Numi	DREN,	TWIN 1880,	CHIT-	Nu	CBER O	P PAIR	or T	wins, 1	880.
	AND MONTHS, 1880.	Total.	Males.	Fe- males.	Males to 100 Fe- males.	Total.	Males.	Fe- males.	One of each Sex.	Males to 100 One of each Sex.	Males to 100 Fe- males
Year,	1880	716	341	375	91	358	105	122	131	80	86
	December	94	44	50	88	47	14	17	16	88	82
٠.	October	72	31	41	75	36	10	15	11	91	67
More than the Av. No. of Twins.	July	68	33	35	94	34	12	13	9	133	92
38년	April	64	36	28	1:29	32	13	9	1,	130	141
A7.	September	64	31	33	94	32	9	10	13	69	90
×	November	64	31	33	94	32	s	9	15	53	89
	August	60	21	39	54	30	6	15	9	67	40
Avera	ge per month	59.7	28.4	81.3	91	29.8	8.8	10.2	10.9	81	86
خ. د	March	54	27	27	100	27	5	5	17	29	100
Less than the Av. No. of Twins.	June	50	29	21	139	25	9.	5	11	82	180
11	January	46	18	28	64	23	6	11	6	100	55
ਬੂ <u>,</u>	February	46	26	20	130	23	s	5	10	80	160
1 ×	May	34	14	20	70	17	5	8	4	125	63

An opportunity is afforded in Table X. of studying the relative proportion of plurality births among the native and foreign-born parents in Michigan during the year 1880. The evidence in Table X. shows that 46.37 per cent. of the total number of pairs of twins were born of parents who were both

native-born, and 37.71 per cent. were born of parents who were both foreign-born. By comparing Table X. with Table VII. it will be observed that the proportion of foreign-born parents is greater for twins than for total births, and of native-born parents the proportion is larger, but not so marked as in the foreign-born. These proportions are nearly the same as those for previous years, and seem to show that the larger twin birth-rate is among the foreign population.

Exhibit 5 on page 43, also shows that the proportion of twin births is greater among the foreign-born, and the same is true for every year since 1870, with the exceptions of 1876 and 1879. In those two years the greater proportion was among the native-born. It is also interesting to study Table VII. with Table XI. on page 43. Of all children born in 1880, the proportion of mixed parentage was as follows: "Foreign Father and Native Mother," 11.23 per cent.; "Foreign Mother and Native Father," 5.83 per cent. Of all twins born in 1880, the proportion of mixed parentage was: "Foreign Father and Native Mother," 10.34 per cent.; "Foreign Mother and Native Father," 4.19 per cent. Table XI. also shows that about 59 per cent. of the twins born in Michigan in 1880, were from parents who were natives of the same state or country.

TABLE X.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1880.

			PAIR	SOF	CWINS,	1860.		
NATIVITY OF PARENTS OF TWINS, 1880,		Num	BER.		ENT-1	ATIVITA	F EACE	COTAL
	Total.	Males.	Fe- males.	One of Each Sex.	Total.	Males.	Fe- males.	One of Each Sex.
All Nativities	358	105	122	131	100.00	100.00	100.00	100.00
Both Native	166	42	61	63	46,37	40.90	50,00	48.09
Both Foreign	135	41	45	49	37.71	89.05	36,89	87.40
Foreign Father and Native Mother	37	15	13	9	10.34	14.29	10.66	6.87
Foreign Mother and Native Father	15	6	2	7	4.19	5.71	1.64	5.34
Unknown Mother, Father Native								2
Unknown Mother, Father Foreign	1	1			.28	.95		
Unknown Father, Mother Native	2		1	1	.56		.82	.76
Unknown Father, Mother Foreign								
Both Unknown	2			2	.56			1.53
One or Both Native	220	63	77	80	61.45	60.00	63.11	61.07
One or Both Foreign	188	63	60	65	52.51	60.00	49.19	49.62

EXHIBIT 5.—By Nativity and by Color of Mothers, the Number and Proportion of Twin Births Returned as having occurred in Michigan during the Years 1878 to 1880, inclusive.

	1	1878.			1879.			1880.	
NATIVITY AND COLOR OF MOTHERS OF TWINS.	Pairs of Twins.	Whole Number of Mothers, In- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.	Pairs of Twins.	Whole Number of Mothers, In- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.	Pairs of Twins.	Whole Number of Mothers, In- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.
Mothers of all Colors and all Nativ-	427	34,729	1.23	402	33,716	1.19	35s	34,953	1.02
All Native Mothers	242	20,143	100	247	19,777	1.25	205		1.01
All Foreign Mothers	173	13,857	1.25	150	13,338	1.12	150	13,961	1.07
Mothers of Unknown Nativities	12	729	1.65	5	601	.83	8	769	.39
White	420	34,290	1.22	400	33,325	1.20	351	34,497	1.02
Black	2	123	1,63	1	132	.76	2	127	1.57
Mulatto	4	77	5,19	1	95	1.05	1	72	1,39
Indian	1	159	.63		122		4	146	2.74
Unknown		80			42		•••••	111	
Black and Mulatto	6	200	3.00	2	227	.88	3	199	1.51

TABLE XI.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1880,—distinguishing between Parents who were Natives of the same State and those Born in Different States or Countries.

			PAIR	8 OF !	TW1N8	, 1880.		
NATIVITY OF PARENTS OF TWINS, 1880.		Nu	BER.		ENT-	NATIVI	F EACT	COTAL
OF TWINS, 1880.	Total.	Males.	Fe- males.	One of Each Sex.	Total.	Males.	Fe- males.	One of Each Sex.
All Nativities	358	105	122	131	100.00	100.00	100.00	100.00
Same American State or Foreign Country	211	65	67	79	58,94	61.90	54.92	60,31
Different American States or Foreign Countries.	90	18	39	33	25.14	17.14	31.96	25.19
Foreign Father and Native Mother	37	15	13	9	10.34	14.29	10.66	6.57
Foreign Mother and Native Father	15	6	2	7	4.19	5.71	1.64	5.84
Unknown Mother, Father Native				•				
Unknown Mother, Father Foreign	1	1	i 		.28	.95		
Unknown Father, Mother Native	2		1	1	.56		.82	.76
Unknown Father, Mother Foreign								
Both Unknown	2			2	.56	•••••		1.53
Different States or Countries	142	39	54	49	39.66	37.14	44.30	87.40

[•] Includes "Different American States or Foreign Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father." Compare with "Same American State or Foreign Country," and with same lines in Table XV.,—for still-born children.

TABLE XII .- Exhibiting, for the State and Counties, by Sex, the number of Pairs of Twins, the Number of Twin Children, and the Nativity of Parents of Twins Returned as having been Born in Michigan during the Year 1880. Nativity stated by Pairs of Twins.

		als.	Twins.	NAT	NATIV		F PAR	ENT	o or	Mon	HER	FAT	HER	1
STATE		Idu	of	-	IVE.	FOR	elga.	nd r.	pu,	U	KK.	U	K.	ı
AND	SEX.	yipu	airs	ate.	nt	me	, nt	er a	ther	Fat	her.	Mot	ber.	l
COUNTIES.		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Best Walnutson
	Total	716	358	94	72	117	18	87	15		1	2		Γ
	Males	341	105	6 31	11	c 34	d 7	e15	16	****	1			١.
State	Females	375	122	g 30	h 31	1 37	8	113	2			k 1		l.
	One of each		131	1 33	m 30	n 46	3	à 9	7			e 1		r
	Total	18	9	3	4	1		1						
	Males	14	6	0 3	3									l.
Allegan	Females	4	1			1								١.
	One of each		2		1			1						l.
	Total	10	5	1		4								1.
	Males	7	3	1		2								1.
Alpena	Females	3	1			1								1.
	One of each		1			1								1.
	Total	6	3		1	2								ŀ
	Males	5	2			2								1.
Antrim	Females	1						-41						ŀ
	One of each		1		1									j.
	Total	16	8	5	3									ŀ
	Males	6	1	1										ŀ
Barry	Females	10	3	1	2				***				***	1
	One of each		4	3	9 1									ļ.
	Total	18	9	1	2	2		4						1-
Wass	Males	10	3	1		1		1						1-
Вау	Females	s	2			1		1						1-
	One of each		4	.,	2			2						1-
Benzie	Males	2	1					1						1.

^{*} See foot-note a to Table VIII.

b 2 pairs and 4 males still-born.
c 1 pair illegitimate still-born, and 1 male stillborn.
d 1 pair illegitimate.
c 2 pairs still-born.
f 1 male still-born.
f 1 male still-born.
g 1 pair and 2 females still-born, 1 pair Indian
and 1 pair White and Indian.
h 2 females still-born.
g 1 pair and 2 females still-born, 1 pair Indian
h 2 females still-born.
g 1 pair white and Indian.
p 1 pair still-born and 1 pair "America."
q 1 female still-born.

BIRTHS OF TWINS, BY COUNTIES, PARENT-NATIVITY, ETC.

i

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		<u>.</u>	wins.		NATIV	ITY O	F PAB	ENT	s of				
		enp	LJo	NAT	IVE,	Form	CION.	pr.	pu	Mor		UN	
COUNTIES.	SEX.	lylpi	irs	ate.	nt	me	nt	ber at	er a	Fat	her.	Mot	her.
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.
	(Total	6	3	2		1							
7. 48	Males	3	1	1									
Berrien	Females	3	1	1									
	One of each		1			1							
Branch	Females	4	9	1	1								
	Total	10	5	3	1	1							
240	Males	5	2	b 2									
Calhoun	Females	5	2		1	1							
	One of each		1	1									
	[Total	6	3	1	1			1					
	Males	3	1		1								
ass	Females	3	1					1					
	One of each		1	e -1									
	[Total	ť	3	1	1	1							
	Males	8	1			1							
Charlevoix	Females	3	1	1									
	One of each		1		1								
	(Total	8	4	1	1	1		1					
	Males	3	1		1								
Cheboygan	Females	5	2			1		1					
	One of each		1	1									
	[Total	6	3	1		1		1					
	Males	2											
Chippewa	Females	4	1				*****	d 1					
	One of each		9	4 1		1							
	[Total	10	5	2	1	1		1		****			
WE ST	Males	3											
Clinton	Females	7	2			1		1					
	One of each		3	2	1								
	(Total	6	3			2							
	Males	5	2			2							
Delta	Females	1											
	One of each		1	*****									

a See foot-note a to Table VIII.

 ² malcs still-born.
 1 pair "America."

c I pair Mulatto.

TABLE XII.—CONTINUED.—Parent-Nativity of Iwins.

			to.	3	NATIV	TITY O	F PAI	ENT	s or	Tw	INS,	1880.		
		duals	L TA	1000	TIVE.	For	EIGN.	and er.	pu.		THER		THER	T
COUNTIES.	SEX.	laffu	er is	ate.	1 10	me	1 #	ther	ther a	Fa	ther.	Мо	ther.	1
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father an Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Both Unknown.
	Total	14	7	1	5			1						
	Males	7	2		1			1						
Eaton	Females	7	2		2									
	One of each		8	1	2									
Emmet	.Males	2	1	1										
1	Total	10	5		4		1							
C	Males	5	9		1		1				·			
Genesee	Females	5	2		2									
	One of each		1		1									
!	Total	4	2	1		1			***					
Grand Traverse	Males	2												
Grand Traverse	Females	2			****									
į	One of each		2	1		1								
	Total	16	8	1	2	2		2	1					
Gratiot	Males	6	2			1			1					
Gratiot	Females	10	4	1	1			2						
į	One of each		2		1	b 1								
ſ	Total	18	9	4	4	1								
Hillsdale	Males	10	4	3	1									
1111184810	Females	8	8	1	2	******			****					
ł	One of each		2		1	1		****	****					
{	Total	16	8			6	1		1					
Houghton	Males	8	1						1					
]	Females	8	1	*****		1								
į	One of each		6			5	1		****	••••	••••			
	Total	16	8		1	2	3		2					
Huron	Males	7	2			1	1							
	Females	9	3	•••••			2		1					
į	One of each		3		1	1			1		****		••••	
ſ	Total	12	6	2	2			2	••••					
Ingham	Males	4	1	1					****					-
	Females	8	3		2			1		****				-
į	One of each		2	1				1						

<sup>See foot-note a to Table VIII.
1 female still-born.</sup>

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

			13.		VITAK	ZITY O	F PAI	RENT	8 OF	TW	'INS,	1880		
		lual).	f Tw	NAT	TIVE.	For	eign.	p	p		HEE		HEE KK.	1
COUNTIES.	Sex.	adivid	airs o	tate.	nt	me	10.	ther.	ther.	Fat	her.	Mot	her.	
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	-
	Total	12	6	1	4			1						-
	Males	2												
Ionia	Females	10	4		6 3			1						
	One of each		2	1	1									
	Total	6	3	1	2									
(sabella	Males	2	1		1									
	Females	4	2	1	1									
	Total	16	8	4	2		1					1		
	Males	2												
Jackson	Females	14	- 6	3	6 1		1					e 1		
1	One of each		2	a 1	1									
Kalamazoo	.Males	2	1		1									
	Total	32	16	5	2	8			1					
	Males	19	7	3		4								
Kent	Females	13	4	2	1	1								
	One of each		5		e 1	8			1					
	Total	4	2			2								
	Males	1												
Keweenaw	Females	3	1			b 1								
	One of each		1			1								
	Total	10	5		2	1		1	1					
	Males	6	1					1						
Lapcer	Females	4												
	One of each		4		2	1			1					
Leelanaw	Females	9	1		t									
	Total	99	11	3	3	3	1	1						
	Males	8	2	e 1		d 1								
Lenawee	Females	14	5	2	1	1		1						
	One of each		4		2	1	1							

a See foot-note a to Table VIII.
b 1 female still-born.
c 1 pair Black.
d 1 maie still-born.
l pair still-born.

TABLE XII.—Continued.—Parent-Nativity of Iwins.

		.	wins.	1	VITAN	ITY O	F PAR	ENT	S OF				
		dual	1	NAT	IVE.	Fori	ZIGN.	pu .	pu.		HEE	FAT	HER K.
counties.	Sex.	Indivi	Pairs	nts State.	rent	Same	rent	ther a	ther a	Fat	her.	Mot	her.
		Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign,	Native.	Foreign.
	(Total	8	4	1	1			9				-,,	
	Males	6	2	1				1					
ivingston	Females	2							2				
	One of each		2		1			1					
ackinac	Females	4	2	b 2					-1				
	Total	12	С	2		1	2						
acomb	Males	s	4	1			2						
	Females	4	2	c 1		1	ļ						
anistee	Males	4	2	1				o 1	**				
	[Total	20	10		1	7	2						
	Males	11	4			3	d 1	***					
arquette	Females	9	3		1	1	1		****				
	One of cach		3			c 3							
ason		4	2	1	1						****		
ecosta	_Males	2	1			1							
	[Total	4	2	1	•••••		ı				****		
haalbi	Males	2	1	1	•••••								
	Females	2	1		•••••		1				****		
	Total	22	11	8	2				1				
	Males	9	2	1					1				
onroe	Females	13	4	2	2								
	One of each		5	e 5	•••••								
	Total	14	7	3	1	3			****				
ontcalm	Males	7	2	1	•••••	1	•••••						
ontearm	Females	7	2		1	1							
	One of each		3	2	••	1		****					
uskegon	Females	4	2			1	1		***				
	Total	4	2	1		1	••••						
ewaygo	Males	8	1			1							
∪ н н j в∪	Females	1						***	***				
	One of each		1	1			 						

<sup>See foot-note * to Table VIII.
pair Indian, and I pair White and Indian.
pair still-born.
pair illegitimate.
pair and I male still-born.</sup>

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		ale.	Twins.	_	NATIV			ENT			INS,		HER	
		å	50	-	TIVE.	FOR	RIGN.	Bud.	and r.		NK.		NK.	
COUNTIES.	SEX.) pd	aira	tate.	ent	B	ent	ather an Mother.	Mother as	Fat	her.	Mot	her.	1
		Number of Individuals.	Number of Pairs of	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mot Native F	Native.	Foreign.	Native.	Foreign.	Both Ifnbuown
	Total	16	8	2	3	1	1	1						[
	Males	11	4	2			1	1						l.
Oakland	Females	5	1		1									
	One of each		3		2	1								
	[Total	4	2	1	1									-
Occana	Males	2												-
Ogenna	Females	2												-
	One of each		2	1	1									-
	[Total	4	2			2								
Ontonagon	Males	2	1			b 1								-
	Females	2	1			b 1								-
	Total	8	4			1		1	2					ŀ
Daceola	Males	8	1						0 1					ŀ
	Females	5	2			1		1						ŀ
	One of each		1						1			****		-
	Total	16	8	3	1	8	*****	1						ŀ
Ottawa	Males	5		*****				••••						ŀ
	Females	11	8	1		1		1						ŀ
	One of each	ļ	5	2	1	2								ŀ
	Total	i •	2			2			•					ŀ
Presque Isle	Males	8	1			1							•	-
	Females	1		•••••				****	****					ŀ
	One of each		1	•••••		1		****	****					ŀ
	Total	22	11	3	1	5	*****		••••	****	1			ŀ
aginaw	Males	9	2			1					1			-
	Females	13	4	2		2								-
	One of each		5	1	1	2						•		Ъ
	Total	4	2			1	1			****				-
anilac	Males	1											****	-
	Females	3	1	•••••	.,		1						****	-
	One of each		1	*****		1				••••		****		-

<sup>See foot-note * to Table VIII.
pair still-born.
male still-born.</sup>



^{7-1880.}

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

**************************************		Ι.	ins.	L	NATI	VITY O	F PA	RENT	S OF	Tw	INS,	1880.	a	_
		duals	Twi	NAT	TIVE.	FOR	EIGN.	q	Pi	Mon	HER K.		HER	Γ
COUNTIES.	SEX.	Indivi	airs	state.	ent	ame .	ent .	her an	Mother and e Father.	Fat	her.	Mot	her.	WD.
	·	Number of Individuals.	Number of Pairs of Twins.	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother an Native Father.	Native.	Foreign.	Native.	Foreign.	Both Unknown.
	(Total	14	7			5	1		1					
a. a	Males	5	1						1					I
St. Clair	Females	9	3			2	1							
	One of each		3			ь 3								
	Total	6	3		3									
O4 *	Males	1												
St. Joseph	Females	5	2		2									
:	One of each		1		1									
	Total	18	9	1	1	2		3	1			1		
Muse ale	Males	12	5	1		1		0 3						
Tuscola	Females	6	2		1	1								
	One of each		2						1			41		
	Total	8	4		1	1		1	1					
W D	Males	3										****		
Van Buren	Females	5	1		1									
	One of each		8			1		e 1	1					
	Total	10	5	1	1	2		1						
Washtanam	Males	8												
Washtenaw	Females	7	2			2								
!	One of each		8	1	1			1						
	Total	180	65	15	8	35	2	8	2			****		
Wayne	Males	60	18	ъ 3		9	1	5						
** # J 110	Females	70	23	* 7	1	13		1	1					
1	One of each	 	24	5	2	13	1	2	1					
	Total	4	2	2										
Wexford	Males	1												
W GYIOIG	Females	3	1	1										
1	One of each		1	1										

a See foot-note a to Table VIII.
b 1 male still-born.
c 1 pair still-born.
d 1 pair illegitimate.
2 females still-born.

TABLE XIII.—Occupations of Fathers of Iwins Born in Michigan during the Year 1880, according to the Returns.

OCCUPATIONS.	Number of Each.	OCCUPATIONS.	Number of Each.
ALL OCCUPATIONS	358	Laborers	76 1
Agents	1	Light-house Keepers	1
Barbers	1	Machinists	4
Bar-tenders	1	Marshals	1
Blacksmiths	6	Masons	2
Boarding-house Keepers	2	Mechanics	2
Broom-makers	1	Merchants	6
Butchers	1	Millers	1
Cabinet-makers	1	Mill-men	1
Carpenters	9	Miners	8
Carpenters and Joiners	1	Moulders	2
Cigar-makers	1	Mule-spinning	1
Civil Engineers	1	Nursery	1
Clerks	5	Painters	8
Coachmen	1	Paper-makers	1
Constables	1	Peddlers	1
Coopers	2	Physicians	1
Dairymen	1	Picture-frame Dealers	1
Draymen	1	Policemen	1
Engineers	3	Printers	8
Farmers	165	R. R. Men	1
Farm Laborers	1	Sailors	1
Finishers	1	Salesmen	1
Firemen	1	Shoe-makers	5
Fishermen	1	Teachers	1
Foremen	1	Teamsters	8
Foremen in Milis	2	Telegraph Operators	1
Gardeners	1	Tinsmiths	. 1
Gilders	1	Unknown	8
Grain Dealers	1	Wagon-makers	2
Grocers	2	Wagon-manufacturers	1
Heaters	1	Watch-makers	1
Judges of Probate	1		_

TRIPLET CHILDREN, 1880.

In the year 1880 four sets of triplets were returned to the State Department, and one set of quintuplets. Of the four triplet cases, one, including 1 male and 2 females, was returned from Barry county; a second, of 1 male and 2 females, was returned from Houghton county; a third, of 3 females, was returned from Leelanaw county; and a fourth, of 3 females, was returned from St. Joseph county. Two sets were of native parentage, and two of foreign parentage. Three of the four sets were born in the fall months, one in September, and two in October. The set of quintuplets was returned from Huron county, and is the only one of the kind ever reported in Michigan. In 1873 there was a set of quartettes from Alpena county.

TABLE XIX.—Exhibiting certain Details concerning Triplet Children Returned as having been born in Michigan during the Year 1880.

	TRI	PLET CHI	LDREN	, 1880.		PARENTS OF TRIPLETS, 1880.					
COUNTIES.	Month			Sex.		Birthplace	Birthplace	Occupation			
	of Birth, 1880.	Color.	Maler.	Fe- males.	Unk.	of Father.	of Mother.	of Father.			
Barry	Dec	White	1	2		Penn	Ohio	Miller			
Houghton	Oct	White	1	2		Germany	Germany	Miner			
Leelanaw	Oct	White		3		Norway	Norway	Farmer			
8t. JosephQUINTUPLETS.	Sept	White		. 3		Penn	Penn	Miller			
Huron	Dec	Unkno'n			5	New York.	Maine	Carpenter.			

STILL-BIRTHS, 1880.

The number of still-born children returned for the year 1880 was seven hundred and thirty-eight (738), being 11 less than the number reported for 1879. Since the year 1870 the number of still-births in Michigan has been progressively increasing to and including the year 1878. In the year 1879 the number decreased and also in 1880. The average number of still-born children for the nine years 1872–1880 is 599. The largest per cent. of still-births to total births for the nine years 1872–1880 occurs for the year 1878, being 2.26, while the average per cent. for the same period of years is 1.79. According to Exhibit 7 a larger proportion of the foreign-born mothers than of the native bore still-born children in 1880, and the same is true for every year except 1873, when the per cent. was the same for native and foreign-born mothers.

From the evidence in Exhibit 7, it appears that a much larger proportion of the black and mulatto mothers bear still-born children than the mothers of any other color. No doubt many still-births are not reported, but every still-birth should be returned both as a birth and as a death.

EXHIBIT 6.—The Relation of Still-births to all Children Returned as having been Born in Michigan during the several Years 1872 to 1880, inclusive, and of the Mothers of Still-born Children to all Mothers Returned as having Borne Children during each of the Years 1872 to 1880, inclusive.

CHILDREN			Тот	AL BIBTI	B AND S	TILL-BIR	THS.		
MOTHERS.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.
All Children born	27,998	84,608	81,151	81,968	84,285	33,895	85, 162	84,122	35,325
Still-born Children	a 301	a 848	464	629	646	720	798	749	786
Per Cent. of Still-born to Total.	1.08	1.01	1.49	1.97	1.89	9.15	2.26	2.20	2.06
All Mothers	27,641	84,180	80,789	31,586	83,791	88,028	84,729	88,716	84,951
Mothers of Still-born Children Per Cent, of Mothers of	- 293	- 553	454	613	620	697	765	793	72
Still-born Children to All Mothers	1.06	.97	1.48	1.94	1.83	2.11	2.20	2.14	2.0

[.] As per returns of births.

EXHIBIT 7.—By Nativity and Color, the Number and Proportion of Mothers having Still-births in Michigan during the Years 1878, 1879, and 1880, according to the Returns.

		1878.			1879,		4.	1880.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Still- births.	Whole No. of Moth'rs, includ- ing those of Still- births.	Per Cent. of Mothers of Still- births to all Moth'rs.	Mothers having Still- births.	Whole No. of Moth'rs, includ- ing those of Still- births.	Per Cent. of Mothers of Still- births to all Moth'rs.	Mothers having Still- births,	Whole No. of Moth'rs, includ- ing those of Still- births.	Per Cent. of Mothers of Still- births to all Moth'rs.
Mothers of all colors and all nativities	765	34,729	2,20	728	33,716	2.14	723	34,953	2.07
All native mothers	358	20,143	1.78	367	19,777	1.86	371	20,223	1.83
All foreign mothers	321	13,857	2.32	280	13,338	2.10	285	13,961	2.04
Mothers of unknown nativities	86	729	11,80	76	601	12.65	67	769	8.71
White	747	34,290	2.18	706	33,325	2.12	706	34,497	2.05
Black	3	123	2,44	4	132	3,03	4	127	3,15
Mulatto	4	77	5.19	2	95	2.11	3	72	4.17
Indian		159		1	122	.82		146	
Unknown	11	80	13.75	10	42	23,51	10	111	9.01
Black and Mulatto	7	200	3,50	6	227	2.64	7	199	3.52

The occupations of fathers of still-born children can be seen in Exhibit 11. Farmers, laborers, carpenters, and miners are in a large majority,—all occupations requiring hard manual labor. As this is true, not only for one year, but also for a number of years, it would seem to indicate that the labor and comfort of the wives of these classes may have some influence upon their offspring.

EXHIBIT 11.—Occupations of Fathers of Still-born Children in Michigan in 1880, according to the Returns.

FATHERS.	C	HILDER	x.	FATHERS.	Cı	HILDRE	x.
OCCUPATIONS.	Males.	Fe- males.	Unk.	OCCUPATIONS.	Males.	Fe- males,	Unk.
Bakers	4	1		Mill-wrights	1		
Barbers		1		Miscellaneous	1		
Blacksmiths	7			Miners	10	10	
Boiler-makers	1			Moulders		1	
Brewers		1		Nurserymen	1	1	
Butchers	2			Painters	2	2	
Cabinet-makers	2			Physicians		2	
Carpenters	14	4	6	Plumbers		2	
Carriage-trimmers	 	1		Policemen	2		
Cigar-makers	2	2		Printers	1		
Clerks	4	1	1	Prison-keepers		1	
Collar-makers		1		Rabbi	1		ļ
Collectors of Castoms	1			R. R. Agents	8		ļ
Constables		1		R. R. Men		2	
Cooks	2			Retired Merchants	1		ļ
Coopers	5	2		Roughers	1		
Dentists		1		Sailors	2	2	
Ditchers	1			Salesmen	1		
Draymen	1			Saloon-keepers	2	2	
Engineers	1	1		Salt-makers		Ī	
Express Messengers	ľ	l		Sawyers	1	1 -	
Farmers		146	14	Seedsmen	ī		
Fishermen	1	1		Ship-carpenters	1 -	1	
Fur Dealers	1			Shoe-makers	2	1	1
Grain Buyers	1 -	1		Smelters	1	;	l'
Grocers	2	l i			;	٠.	
Hack-drivers	l ī			Speculators	1 -		
Harness-makers	2			Stave-cutters	;		
Jewelers	1 -		1	Stenographers			
Joiners	i		1	Stock-raisers	l .		
Laborers	1 -	58	6	Stone-masons	1		'
	1	"	1	Switchmen	-		
Last-makers	1	1		Tailors			
Lawyers	1 -			Teachers	1 .	3	
Lumbermen	1	2		Teamsters	1	2	
Machinists	:	1 -	1	Traveling Agents			
Masons	1	1		Unknown	40	27] :
Merchants	1	5		Wagon-makers			
Millers	1	1		Well-diggers		1	l
Mill-owners	. 1				1	1	1

Table XIV. shows the sex of the still-births in Michigan, by months, for the year 1880, and also the nativity of the parents of still-births. As is usually the case, more still-births occur among the males than among the females. One reason assigned for this is the fact that the males being larger, are, therefore, more exposed to dangers.

TABLE XIV.—Exhibiting, by Sex, the Parent-Nativity, and by Sex and by Months, the Number of Still-births in Michigan during the Year 1880, according to the Returns.

	1	"ILM	Воси Спкпо	633	36	53	¢*
	E. H.	Jer.	Foreign.	•	Q1	C4	1
	FATHER UNK.	Moth	Zative.	00	10	00	1
	MOTHER UNK.	ser.	Foreign.	4	OI	-	1
880	MOTH. UNK.	Pat	Native.	-	1	1	1
HS, 1	-u N pu	ner a	Foreign Moi	83	19	18	04
BIRT		other	Foreign Far	12	=	30	-
H			Ппкпомп.			1	1
S 40	IGN.	-un	Different Co	62	18	22	-
NT8	FORRIGE.	_	Same Count	213	120	87	9
PABE	-		Total	242	88	100	7
T OF		.seate	Different St	117	20	21	11
NATIVITY OF PARRIES OF STILL-BIRTHS, 1880.	NATIVE.		Same State.	182	101	17	10
~	2		Total.	509	156	123	21
	STS	GAN.	Могћет.	231	129	8	13
	PARENTS BORN IN	Міснібан	Father.	167	90	20	7
			Пп/кпомп,		1		1
			December.	8	62	82	7
			November.	80	4	36	09
			October.	28	83	55	*
	115		September.	22	27	24	*
90.			August.	8	27	25	*
Момтив, 1880.			July	57	8	13	60
DATE			June,	2	31	17	61
M			May.	46	22	8	01
			April.	19	320	83	04
			March.	28	37	8	i
	1		February.	E	\$	24	65
			January.	0#	77	12	H
		1880.		e 788	403	301	750
		SEX.		Fotal	fales	'emales.	Jnknown

a Includes 5 pairs, 6 half pairs male twins, 2 pairs, 5 half pairs female twins and 4 pairs 2 males and 2 females
Black, 1 male and 2 females Malatto, and 1 male and 13 unknown sex, unknown color; 7 males and 4 females illegitimates, and 1 set of quintuplets.

The evidence given in Table XV. affords an interesting study of the parentnativity of still-born children returned as having been born in Michigan during the year 1880; 53.52 per cent. of the parents were natives of the same state or country; and 33.20 per cent. were foreign-born, while 40.51 per cent. were native-born.

TABLE XV.—Parent-Nativity of Still-born Children,—Exhibiting, by Sex, the Number and Per Cent. of Total Number Returned as having been Born in Michigan during the Year 1880, of Parents who were Natives of the Same and of Different States or Countries.

			STI	LL-BOR	n Child	REN, 1890).	
NATIVITY OF PARENTS OF STILL- BORN CHILDREN, 1880.		Nux	BER.				Parent-N LL Nati	
	Total.	Males,	Fe- males.	Un- kno'n.	Total.	Males.	Fe- males.	Un- known.
All Nativities	788	403	301	84	100.00	100.00	100.00	100,00
Same American State or Foreign Country	395	221	158	16	58,52	54.84	52,49	47.06
Different American States or Foreign Countries	149	73	64	12	20.19	18.11	21.26	85,99
Foreign Father and Native Mother	75	44	80	1.	10.16	10.92	9,97	2.94
Foreign Mother and Native Father	89	19	18	2	5.28	4.71	5.98	5.88
Unknown Mother, Father Native	1	1	ļ	ļ	.14	.25		
Unknown Mother, Father Foreign	4	2	1	1	.54	.50	.88	2,94
Unknown Father, Mother Native	8	5	8	 -	1.08	1.24	1.00	
Unknown Father, Mother Foreign	4	2	2		.54	.50	.66	
Both unknown	63	36	25	2	8.54	8,93	8,81	5.88
Different States or Countries	263	136	112	15	35,64	88.75	37.21	44.12
Native	299	156	122	21	40.51	88.71	40,53	61.76
Foreign	245	138	100	7	88,20	84.24	83.99	20.59

ILLEGITIMATE CHILDREN, 1880.

More illegitimate children were returned as having been born in Michigan for the year 1880 than has been recorded for any year since the registration began. The average annual number for the 13 years 1868–1880 is 233, which shows that the year 1880 is far above an average one. The average per cent. of illegitimate children to all children born for the same period of years is .74, and the per cent. for 1880 is 1.20. The number of mothers who bore children out of wedlock during the year 1880, according to the returns of births, is 423, which is 1.21 per cent. of all mothers.

The nativity and color of mothers of illegitimate children is given in Exhibit 9. As usual, the statistics in regard to these births are very incomplete, it being almost impossible to obtain such records. The per cent. of mothers of illegitimates to all mothers in 1880, is greatest among the Indian

mothers, it being 4.79, which fact is true for every year except 1876. For the Mulatto it is 4.17 per cent., for the Black, 3.15 per cent., while the per cent. for the White mothers is only 1.18.

Table XVI. shows the sex of illegitimate children, by months, and the nativity of the parents of such births. The greatest number appears for March and the smallest for June.

Some very valuable evidence on this subject is contained in Table XVII., where the illegitimate birth-rate among the different races is shown for the year 1880. The largest per cent. of births out of wedlock to population for 1880 appears for the Indians, next for the Black and Mulatto, and the smallest for the White inhabitants.

So far as the parentage was recorded for the year 1880, as seen in Table XVIII., 148 children were born of native-born mothers out of wedlock to 78 born of foreign-born mothers. When the difference in the number of inhabitants of native and foreign-born is taken into consideration, the proportion is much larger among the foreign-born mothers.

EXHIBIT 8.—The Relation of the Illegitimate Children to All Children Returned as having been Born during the several Years 1875 to 1880, inclusive, and of Mothers of Illegitimates to All Mothers Returned as having Borne Children in Michigan during each of the Years 1875 to 1880, inclusive.

		TOTAL B	ETHS AN	D ILLEG	TIMATES	•
CHILDREN AND MOTHERS.	1875.	1876.	1877.	1978.	1879.	1880.
All Children born	31,958	34,235	83,895	85,162	34, 122	85,823
Illegitimate Children	193	266	316	a 202	292	425
Per Cent. of Illegitimates to Total	.60	.78	.95	.57	.86	1,20
All Mothers	81,586	33,791	33,028	84,729	33,716	84,953
Mothers of Illegitimate Children	192	262	312	a 202	289	423
Per Cent. of Mothers of Illegitimates to All Mothers	.61	.78	,94	.58	.96	1.21

a The number of illegitimates returned for Wayne county for 1878 is probably too small by about 70 births. Heretofore the children born in the "Foundlings' Home," in the ninth ward of Detroit, have generally been returned as illegitimate; but we are unable to get any such statement for 1878, although there is no doubt that those children whose fathers' names are reported "Unknown" (the mothers' names being given), in the said ninth ward, are illegitimate.

TABLE XVI.—Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan, during the Year ending December 31, 1880, according to the Returns.

						M	MONTHS, 1880.	18, 1	.089						NA	MITIE	ATE	MOTH	NATIVITY OF MOTHERS OF ILLE- GITIMATE CHILDREN, 1850.	1880	ė	NAT	NATIVITY OF FATHERS OF ILLE- GITIMATE CHILDREN, 1880.	TE	FATE	ERS (REX,	1880.	in
															×	ATIVE.	4	Fo	FOREIGN			NA	NATIVE.	-	Fo	FOREIGN.	N.	
SEX.	YEAR, 1880.	January.	February.	March.	.llaqA	May.	June.	July	August.	September.	Octobet.	November.	ресетрек.	Unknown.	Total	Born in Mich.	Born in Other States.	Total.	Born in Can- ada,	Born in Other Countries.	Пикломп.	Total.	Born in Mich- igan.	Born in Other States.	Total	Born in Can- ada.	Born in Other Countries.	Unknown.
Total	n 425	39	88	47	36	26	24	44	35	40	40	83	55		148	102	43	13	14	23	108	9	31	11	73	41	13	356
Males	216	83	=	83	16	10	23	56	83	81	11	10	12	1	79	#	50	88	50	18	H	54	18	9	13	-	9	179
Females.	202	=	18	54	20	12	21	50	21	11	83	18	17	i	83	29	83	32	15	14	90	11	15	10	=	1	1	176
Unknown	69	1	1	1	1	1	-	i	-	-	1	-	1	!	01	61	1	1	i	1	1	-	-	1	i	1	1	-

*Includes 7 maies and 4 femaies still-born; 1 pair male twins, and 1 pair one of each sex; 2 maies and 2 femaies Black; 1 male and 2 femaies Mulatto; 2 maies, 4 femaies Indian, 1 maie White and Indian; and 1 maie color unknown.

TABLE XVII.—Exhibiting, by Color and by Sex, the Population June 1, 1880, the Number of Illegitimate Children Returned as having been Born in Michigan during the Year 1880, the Per Cent. of such Children to Inhabitants, the Per Cent. of each Sex to the Total of both Sexes, and the Number of Inhabitants to each Illegitimate Child Reported.

COLOR OR RACE.	SEX.	Population June 1, 1880, Represented by Births in 1880.	Total Illegiti- mate Births, 1880.	Per Cent. of Births to Popula- tion.	Per Cent. of Each Sex to Total of Both Sexes.	Number of Inhabitants to one Illegitimate Child of the same Color.
	[Total	1,827,807	425	.03		8,929
	Males	856,802	216	.03	51.06	8,964
All Colors	Females	771,005	207	.08	48,94	8,795
•	 Unknown		2			
	4. Marka 1		<u> </u>		<u> </u>	
	Total		410	.08		8,915
White	Males		209		51.28	
	Females		199		48.77	
	(Unknown	l	2			
	Total	l '	4			
Black	Males		2		50.00	
	(Females		2		50.00	
	Total		8			
Mulatto	Males		1		88.88	<u>-</u>
	Females		2		66.67	
	Total	7,067	7	.10		1,010
Indian	Males		8		42.86	
	Females		4		57.14	
	Total		1			
Unknown	Males	İ	1		100.00	
	Females	1				
						
	Total	15,085	10	.07		1,509
Black and Mulatto	Males		4		40.00	
	Females		6		60.00	
		l	!	<u> </u>		

TABLE XVIII.—Exhibiting the Number of Males to 100 Females, and by Sex, the Number and Per Cent. of Total Number of Illegitimate Children Born of Native and of Foreign-born Parents, in Michigan, during the Year 1880, according to the Returns.

			IL	LEGITI	MATE C	HILDBEN	r, 1880.		
NATIVITY OF PARENTS OF ILLEGITIMATE CHILDREN, 1880.	Number		Num	BER.		P	ER CENT.	OF TOT	AL.
1000.	Males to 100 Fe- males.	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Unk.
All Nativities	104	425	216	207	2	100.00	100.00	100.00	100.00
Native	78	148	64	82	2	84.82	29.63	89,61	100,00
Mothers Foreign	109	78	38	85		17.18	17.59	16.91	
Unknown.	127	204	114	90		48.00	52.7 8	48,48	
Native	141	42	24	17	1	9.88	11.11	8.21	50.00
Fathers	93	27	18	14		6.85	6.02	6.76	
Unknown.	102	356	179	176	1	83.76	82.87	85.02	50.00

EXHIBIT 9.—By Nativity and Color, the Number and Proportion of Mothers of Illegitimate Children Returned as having been Born in Michigan during the Years 1878 to 1880, inclusive.

		1878.			1879.			1880.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Illegitimates,	Whole No. of Mothers includ- ing those of Illegiti- mates.	Per Ct. of Moth- ers of Illegiti- mates to all Moth'rs.	Mothers having Illegitimates.	Mothers includ- ing	Per Ct. of Moth- ers of Illegiti- mates to all Moth'rs.	Mothers having Illegitimates.	Whole No. of Mothers including those of Illegitimates.	Per Ct. of Mothers of Illegiti- mates to all Moth'rs.
Mothers of all colors and all na- tivities	a 202	34,729	.58	289	33,716	.86	423	34,953	1.21
All Native Mothers	114	20,143	.57	136	19,777	.69	147	20,228	.78
All Foreign Mothers	34	13,857	.25	89	13,338	.67	72	13,961	.59
Mothers of unknown nativities.	54	729	7.41	64	601	10,65	204	769	26.53
White	179	84,290	.52	266	33,325	.80	408	84,497	1.18
Black	7	123	5.69	7	132	5,30	4	127	8.15
Mulatto	3	77	3,90	4	95	4.21	8	72	4.17
Indian	11	159	6.92	b 11	122	9.02	7	146	4.78
Unknown	2	80	2.50	1	42	2.38	1	111	.90
Black and Mulatto	10	200	5.00	11	227	4,85	7	199	8.52

See foot-note a to Exhibit 8, page 57.
 I female half Indian; 1 male, 2 females White and Indian.

TABLE XX.—Exhibiting the Number of Males to 100 Females among Twin Children, and the Number of Illegitimate and Still-born Children Born during the Year 1880.

STATE AND COUNTIES.	Twin Children,— Number of Males to 100 Females.	Number of Illegiti- mate Chil- dren born in 1880.	Number of Still- births in 1880.	COUNTIES.	Twin Children,— Number of Males to 100 Females.	Number of Illegiti- mate Chil- dren born in 1880.	Number of Still- births in 1880.
State	91	425	738	Lake			2
Allegan	350	3	21	Lapeer	150	5	15
Alpena	238		1	Leelanaw	ь	1	5
Antrim	590	1	2	Lenawee	57	5	18
Baraga			1	Livingston	300		8
Barry	60	2	7	Mackinac	ъ	2	
Вау	125	8	17	Macomb	200	2	10
Benzie			4	Manistee	•	9	15
Berrien	100	8	9	Marquette	122	4	21
Branch	ь	1	13	Mason			1
Calhoun	100	4	14	Mecosta	•	1	
Cass	100	4	5	Midland	100	2	1
Charlevoix	100	1		Missaukce			
Dheboygan	60		5	Monroe	69	6	8
Chippewa	50	1		Montcalm	100		20
Clinton	43	4	5	Muskegon	ъ	8	1
Delta	500		2	Newaygo	300	8	
Eaton	100	8	8	Oakland	220	2	1
Emmet		7	8	Oceana	100	1	
Genesee	100	1	13	Ontonagon	100		,
Grand Traverse	100		1	Osceola	60	3	
Gratiot	60	1	7	Ottawa	45	2	21
Hillsdale	125	2	5	Presque Isle	300	1	;
Houghton	100	1	15	Saginaw	69	1	3
Huron	78	2	16	Sanilac	83	8	10
Ingham	50		9	Shiawassee		1	4
Ionia	20	4	18	St. Clair	56	3	2:
Iosco			3	St. Joseph	20	4	ı
Isabella	50	2	5	Tuscola	200	5	14
Jackson	14	1	10	Van Buren	60	3	1
Kalamazoo		7	13	Washtenaw	48	9	,
Kent	146	15	29	Wayne	86	258	12
Keweenaw	83	1	7	Wexford	33	. 2	

[.] No females.

According to Exhibit 10, there were 17 townships in Michigan in which it was reported there were no births in 1880. The population of each township is given except Ætna in Missaukee county and St. Helens in Roscommon county, which were organized since the Census of 1880 was taken. The total population in the State among whom there were no births during the year 1880 was 2,272.

EXHIBIT 10.—Townships in which it is Reported that there were No Births in 1880.

COUNTIES.	Townships,—No Births	Port	LATION IN	1890.
COUNTIES.	ти 1880.	Total.	Males.	Females.
Total		2,272	1,559	718
Crawford	Center Plains	154	86	68
Delta	Winona	78	43	85
Kalkaska	Cold Springs	101	52	49
	(Glencoe	126	91	35
Lake	{ Lake	90	57	88
	(Maple Grove	97	50	47
Manistee	Springdale	102	61	41
Marquette	Negaunee	835	197	138
Mason	Lincoln	140	84	56
Missaukee	Ætna			
	(Cumming	122	91	81
Ogemaw	Edwards	306	210	96
Ontonagon	Carp Lake	78	48	25
Otsego	Charlton	100	65	85
	Gerrish	214	196	18
Roscommon	Nester	234	228	6
	St. Helens			

[•] Organized since Census was taken.

The townships from which no returns of births were received for 1880 can be seen in Table XXI., also the counties in which they are located. It is the duty of every supervisor in the State to make a report to the county clerk, and this should be done even if there were no births or deaths to report. Any officer who refuses or neglects to perform these duties is liable to a fine of one hundred dollars and the costs of prosecution. The population and other statistics of these delinquent townships are given as far as possible.

TABLE XXI.—Exhibiting the Counties and Townships from which no Returns of Births in 1880 were received, the Number of Females Aged 16 to 45, and by Sex and by Color, the Number of Inhabitants June 1, 1880, in such Counties and Townships.

	Townships from which	Por	ULATIO 18	on Jun 80.	re 1, ;	Cotal.	and Mu- Total.	rotal.	Total.	-Total.
COUNTIES.	NO RETURNS OF BIRTHS WERE RECEIVED FOR 1880.	Total.	Males.	Females.	Females Aged 16 to 45.	White.—Total.	Black and latto.—T	Indian.—Total	Native.—Total.	Foreign.—
Total		9,630	6,053	8,577	892	9,433	15	182	5,921	8,648
Alpena	Briley									
Cheboygan	Ellisab								 -	
Chippewa	Detour	471	285	186		366	11	94	250	231
Delta	Saldwin	295	183	112		295			189	156
201111111111111111111111111111111111111	Sack Bay	301	174	127		301			173	128
Grand Traverse	East Bay	654	878	281	125	654			507	147
•	(Plainfieldb	61	33	28		61				
Iosco	Wilber	202	100	102		202			122	80
Isle Royal	All Townships	56	81	24		55			34	21
Kalkaska	Springfieldb	404	242	162	64	404			802	102
Lake	Elkb	156	128	33		155		1	74	82
	Brevort.									
Mackinac	Hendricks	434	294	140		409		25	317	117
	Lakefield						 			
Marquette	Richmond	750	440	310		750	 		332	418
_	Cedarvilleb	229	171	58		229		l	99	130
Menominee	Nadeau							l	l <u></u>	l
	Spaulding	1,131	795	336		1,129		2	428	703
Montcalm	Home	1,982	1,276	706	885	1,981	1		1,567	415
Saginaw	Bridgeport	1,644	901	743	318	1,642	2		1.180	464
_	(Munising	270	174	96		210		60	147	123
Schoolcraft	Onota		378	47		419	1		91	329
Wexford	Concordb	171	85	86		171			159	12

Organized since Census was taken.
 County clerk says there were no returns from Supervisor.

SEX OF CHILDREN.

The tables and exhibits that follow contain much that is interesting concerning the causes which appear to influence the sex of offspring. Exhibits N, O, and P show, respectively, the births, as returned by months for the year 1880, as equalized to months of uniform length, and as corrected for omissions in the enumeration, and equalized to months of uniform length. In Exhibit O, the number of births in unknown month, and those births where the sex of children was not stated, are omitted. This gives an opportunity of studying the proportion of the sexes for the different months in the year.

TABLE XXII.—Exhibiting, by Months, the Relation between the Total Number of Conceptions during certain Months of the Years 1879-80, and the Proportion of each Sex Conceived during the same time and Born during the Year ending December 31, 1880, according to the Returns.

	Conce	PTIONS FOR	BIRTHS IN 1880.	
Birth	s of 1879 and 1880 of Conceptions of as in 1880, in order by number, the first.	Total Number of Concep- tions. b	aMonths of 1879 and 1880, in order by num- ber of Males to 100 Females, greatest first.	Numbe of Male to 100 Female
an the Average ober of Con- ceptions.	April	2,797	April April April April April	11 11 11 11
Less th Nun	August	2,861	Average	10
yer.	Coctober	2,951 3,109	October January, 1880 March, 1890 September	1
More than the A age Number of Conceptions.	March, 1880 November		Auguste Solution of the control	10

a Equalized to months of 30.44 days each, and excluding unknown sex and unknown month.

b For purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

e Exceptions to the proposition that more than the average proportion of males were conceived in months in which less than the average total number of conceptions occurred, and vice versa.

TABLE XXIII.—Exhibiting, by Months, the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births Corrected as if Enumerated in Months of Occurrence and Equalized to Months of uniform length.

	Соже	EPTIONS FO	B BIRTI	HS, 1880. a	
Birthi Corre- occur- unifor	of 1879 and 1880 of Conceptions of s in 1880, estimated from Births cted as if enumerated in months of rence, and equalized to months of m length. Months arranged in by number, the least first.	Number of Concep- tions as Corrected and Equal- ized.b	Birth Corre occur unifo order	of 1879 and 1880 of Conceptions of s in 1880, estimated from Births cted as if enumerated in months of rence, and equalized to months of rm length. Months arranged in by number of Males to 100 Females, est first.	Number of Males to 100 Females. Births Corrected and Equal- ized.
₽ġ	[April	8,892	. a	May	126
a sa a	March, 1880	8,898	be A ortic	July	125
than tree No.	February, 1880	8,909	than the Av. Proportion f Malca.	June	123
cess than the erage No. of (January, 1880	4,041	More than terage Proport of Male	April	122
era Ser	September	4,129	E S	February, 1880	119
Avera	ge	4,209	Avers	nge	118
ŝ	October	4,211	2	October	117
Aver age ions.	August	4,268	Average Males.	September	115
o Determine	May	4,823	γ ζ χ	January, 1880	115
ğğ.	December	4,451	the n of	August	114
a S	July	4,457	than	November	113
More than the Aver No. of Conceptions.	November	4,459	ess than the Proportion of	December	112
X	June	4,474	3"	March, 1880	112

EXHIBIT N.—Births Returned as having occurred in Michigan during the Year 1880, by Sex, and by Months Equalized to 30.44 days each.

	YEAR,				Mon	тнв о	F BIR	THS, E	QUAL	ZED, 1	1880.		•	
ARX.	1880.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total	a 35,24 7	2,312	2,638	2,799	2,865	2,828	2,813	2,957	8,226	3,326	8,116	8,118	3,218	36
Males,	18 ,83 6	1,911	1,402	1,479	1,524	1,445	1,445	1,535	1,652	1,698	1,616	1,652	1,659	18
Females	16,849	1,099	1,229	1,818	1,837	1,378	1,365	1,416	1,570	1,621	1,495	1,457	1,549	15
Unknown.	62	2	7	2	4	5	8	6	4	7	5	4	10	8

The number of births of each sex and the total number, as equalized, do not equal the number of births as returned because of the loss of fractions, and the unequal numbers in the several months modified by addition and subtraction. The total number as equalized is 76 less than the total number returned (35,523).

<sup>a See foot-note b to Table XXII., page 64.
b Excluding unknown month and unknown sex.
e Exceptions to the proposition that more than the average proportion of males were conceived in months in which more than the average number of conceptions occurred, and less than the average proportion of males in months in which less than the average number of conceptions occurred.</sup>

^{9-1880.}

TABLE XXIV.—Exhibiting by Months, according to the Returns, the Relation between the Total Number of Conceptions, and the Total Number of Deaths which occurred in the Months of the Years 1879 and 1880 in which were Conceived the Children Born during the Year ending December 31, 1880.

	DEATHS.		Conceptions, b						
Birth	a of 1879 and 1880 of Conceptions of s in 1880, arranged in order by Total ber of Deaths, the least first.	Number of Deaths, as Equal- ized.	Months Births least	a of 1879 and 1880 of Conceptions of in 1880, in order by number, the first.	Number of Concep- tions, as Equal- ized. *				
	January, 1880	845	S _a	April	2,812				
No.	June	915	Average Con-	May	2,638				
₽¥.	February, 1880	1,052	S S S S S S S S S S S S S S S S S S S	June	2,799				
the	May	1,068 1,128	Less than the Av Number of Co ceptions.	September	2,818				
than the Avoir Of Deaths.	March, 1880		T E	August	2,828				
Less	July	1,162	1 1	July	2,865				
7	April	1,191	Avera	ge	2,934				
Avera	sge	1,194		October	2,957				
Δ. 2.	October	1,263	¥ a	February, 1880	8,118				
than the A. of Deaths.	November	1,287	40.9	January, 1880	8,116				
ag .	September	1,424	ept g	March, 1880	8,918				
26	December	1,498	More than the Av. No. of Con- ceptions.	November	8,226				
More t	August	1,509	A	December	8,896				

a Equalized to months of 30.44 days each, excluding unknown month. b See foot-note b to table XXII., page 64.

EXHIBIT O.—Births Returned as having occurred in Michigan during the Year 1880, by Sex, and by Months Equalized to 30.44 days each, and by Months, the Excess of Males over Females, and the Number of Males to 100 Females. Unknown Sex and unknown month excluded.

	Year,	MONTHS OF BIRTHS, EQUALIZED, 1880.											
SEX.	1880.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes	a 85, 152	2,810	2,631	2,797	2,861	2,823	2,810	2,951	8,222	3,319	8,111	8,109	8,206
Males	18,818	1,211	1,402	1,479	1,524	1,445	1,445	1,585	1,652	1,698	1,616	1,652	1,659
Females	16,834	1,099	1,229	1,818	1,887	1,378	1,365	1,416	1,570	1,621	1,495	1,457	1,549
Excess of Males	1,484	112	173	161	187	67	80	119	82	77	121	195	110
Males to 100 Fe-	109	110	114	112	114	105	106	108	105	105	108	118	107

a The number of births of each sex, and the total number of both sexes, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. This table excludes births in unknown month and of unknown sex,—95. These and the 76 lost in equalizing, added to the number shown in this table, make the number as returned by registration officers (35,823).

TABLE XXV.—Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths, the Number of Deaths and the Number of Births Returned from which Conceptions are estimated, being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	DEATHS.			CONORPTIONS. A						
Birt ber Corr	of Deaths, the least first, Deaths	Number of Deaths, as Cor- rected and Equal- ized.	Birt rect curr form	is of 1879 and 1880 of Conceptions of he in 1880, estimated from Births Cor- ed as if enumerated in months of co- ence, and equalised to months of uni- a length. Months arranged in order number, the least first.	of Conceptions, as Corrected					
£.,	[June	1,846	¥.8	(April	8,887					
Average Deaths.	May	1,609	than the Av.	March, 1890	8,908					
A D	November	1,617	one t	February, 1880	8,907					
Number of 1	October	1,642		January, 1880	4,044					
曹	July	1,659	38	 September	4,180					
i i	January, 1880	1,708	Aver	åge	4,210					
Aver	Age	1,787	2 3	October	4,214					
.•	December	1,814	the Average Conceptions.	August	4,971					
44	April	1,854	a Gel	May	4,825					
n the Av	September	1,912	<u> 48</u>	July	4,45					
38	February, 1880	2,050	More than Number of	December	4,400					
More No.	August	2,091	2	November	4,461					
A	March, 1890	2,137	ŽĔ	June	4,467					

[•] See foot-note • to Table XXII., page 64. • Excluding unknown month.

EXHIBIT P.—Births Returned as having occurred in Michigan during the Year 1880, by Sex and by Months, Corrected for Omissions in Enumerating, Equalized for Increase of Population during the Year covered by the Returns, and as thus corrected and Equalized for the several Months, Equalized for Months of 30.44 days each.

YHAR,					Mont	es of	Birte	t, 1890.				
1880.	Jan.	Feb.	Mar.	April.	Мау.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
51,686	4,055	4,489	4,631	4,598	4,888	4,230	4,301	4,588	4,529	4,084	3,936	8,907
27,943	2,230	2,501	2,557	2,551	2,340	2,260	2,317	2,405	2,396	2,181	2,142	2,063
23,743	1,825	1,988	2,074	2,047	2,048	1,970	1,984	2,183	2,183	1,903	1,794	1,844
	1880. 51,686 27,943	1880. Jan. 51,686 4,055 27,943 2,230	Jan. Feb. 51,686 4,055 4,489 27,943 2,230 2,501	1890. Jan. Feb. Mar. 51,686 4,055 4,489 4,631 27,943 2,230 2,501 2,557	Year, 1880. Jan. Feb. Mar. April. 51,686 4,055 4,489 4,631 4,598 27,943 2,230 2,501 2,557 2,551	Year, 1880. Jan. Feb. Mar. April. May. 51,686 4,055 4,489 4,631 4,598 4,388 27,943 2,230 2,501 2,557 2,551 2,340	Year, 1880. Jan. Feb. Mar. April. May. June. 51,686 4,055 4,489 4,631 4,598 4,838 4,230 27,943 2,230 2,501 2,567 2,651 2,340 2,260	Year, 1880. Jan. Feb. Mar. April. May. June. July. 51,686 4,055 4,489 4,631 4,598 4,888 4,230 4,301 27,943 2,230 2,501 2,567 2,651 2,340 2,260 2,317	Jan. Feb. Mar. April. May. June. July. Aug. 51,696 4,055 4,489 4,631 4,598 4,888 4,230 4,301 4,538 27,943 2,230 2,501 2,557 2,551 2,340 2,260 2,317 2,405	YHAR, 1880. Jan. Feb. Mar. April. May. June. July. Aug. Sept. 51,686 4,055 4,489 4,631 4,598 4,888 4,230 4,901 4,538 4,529 27,943 2,230 2,501 2,557 2,551 2,840 2,260 2,317 2,405 2,396	YHAR, 1880. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. 51,686 4,055 4,489 4,631 4,598 4,888 4,230 4,901 4,538 4,529 4,084 27,943 2,230 2,501 2,557 2,551 2,840 2,260 2,317 2,405 2,396 2,181	YHAR, 1880. Jan. Feb. Mar. April. May. June. July. Aug. Sept. Oct. Nov. 51,686 4,055 4,489 4,631 4,598 4,888 4,230 4,901 4,538 4,529 4,084 2,936 27,943 2,230 2,501 2,557 2,551 2,340 2,260 2,317 2,405 2,896 2,181 2,142

TABLE XXVI.—Exhibiting by Months, the Relation between the Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1879 and 1880; the Number of Deaths and the Number of Births Returned from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	DEATHS.			CONCEPTIONS. *	
Birt ber rect occu	ths of 1879 and 1830 of Conceptions of his in 1880, arranged in order by num- of Deaths, least first. Deaths Cor- ed as if enumerated in months of arrence, and equalized to months of form length.	Number of Deaths, as Cor- rected and Equal- ized.	Birth recte curre form	s of 1879 and 1880 of Conceptions of is in 1880, estimated from Births Cor- id as if enumerated in months of oc- ince, and equalized to months of unl- length. Months arranged in order imber of Males to 100 Females, great- rst.	Number of Males to 100 Fe-msles. Births Corrected and Equalized.
age 18.	June	1,346	Av-	May	126
Avera	May	1,609	489	July	125
T D	November	1,617		June	123
or o	October	1,642	ge J	April	122
Less than the Number of	July	1,659	Mon	February, 1880	- 119
Les	January, 1880	1,708		ıge	118
Ave	rage	1,787	-	(October	117
	December	1,814	Ауетаве	September	115
AAA hs.	April	1,854	A on on	January, 1880	115
the	September	1,912	the	August	114
More than the Av.	February, 1880	2,059	than the Ave Proportion of Males.	November	113
No.	August	2,091	Less t	December	112
4	March, 1880	2,137	ž.	March, 1880	112

aSee foot-note b to Table XXII., page 64.
b Excluding births in unknown month and of unknown sex.

TABLE XXVII.—Exhibiting by Months, according to the Returns, the Relation between the Total Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1879 and 1880, and Born during the Year ending December 31, 1880.

	DEATHS.		CONCEPTIONS, b						
Birth	of 1879 and 1880 of Conceptions of as in 1880, arranged in order by ber of Deaths, the least first.	Number of Deaths, as Equal- ized.	Months ber of first.	sa of 1879 and 1880, in order by num- of Males to 100 Females, greatest	Number of Males to 100 Females.				
,	January, 1880	845	of of	May	114				
No.	June	915	96	July	114				
¥ e	February, 1880	1,052	a tage.	February, 1880	118				
the	May		More than the Proportion o	June	119				
than the Av. of Deaths.	March, 1880	1,128	Ş K	April	110				
Less	July	1,162							
7	April	1,191	Avera	ge	109				
A	~ ^	1 104		October	108				
Avera	ge	1,194	<u> </u>	January, 1990	108				
A.T.	October	1,263	be Av	March, 1880	107				
dag.	November	1,287	artice.	September	106				
N N N	November		Less than the Proportion of	August	105				
5 5 0 4 5 0			3,	November	105				
E S	August	1,509		December	105				

a Equalized to months of 30.44 days each, excluding unknown sex and unknown month. b See foot-note b to Table XXII., page 64.

TABLE XXVIII.—Exhibiting for the Total Births, for the Twins, Illegitimates, and Still-born Children Returned as having been Born in Michigan during the Year 1880; the Number of Boys to 100 Girls among such Children, distinguishing by Parent-Nativities, thus exhibiting the Influence of Parent-Nativity and of other Conditions upon Sex of Children.

		Вівтня	, 1880.		Boys to 1	00 GIRLS.	
NATI	VITY OF PARENTS.	Males.	Females.	Total Births.	Twin Children.	Illegiti- mates.	Still- births.
All Nativi	ties	18,878	16,888	108.79	90.98	104.85	188.89
Both Pare	nts Native	8,406	7,838	107.25	79,46		127.87
Both Pare	nts Foreign	6,234	5,787	108.66	94.24		188.00
Foreign F	ther and Native Mother	2,187	1,827	116,97	111.48		146,67
Foreign M	other and Native Father	1,078	979	109.60	172.78		105.56
One or Bot	h Unknown	528	507	108.16	100.00		148.89
	Native	10,627	9,775	108.72	83,86	78.05	182,96
Mothers	Foreign	7,844	6,754	108.74	100.00	108.57	182,50
	Unknown	402	859	111,98	200.00	126,67	150.00
	(Native	9,538	8,893	107.25	84.69	141.18	125.71
Fathers	Foreign	8,402	7,600	110.55	98,85	92,86	140.46
1	Unknown	488	895	109.62	60.00	101.70	143,88
One or Bot	h Native	11,759	10,830	108.58	88.08		180.06
One or Bot	h Foreign	9,512	8,617	110.89	108.24		185.76
Both Unkr		812	247	126.82	100,00		144.00
Same Cour	ntry	b 14,640	b 18,575	b 107.85	∘ 85.57		• 132,06
Different (Dountries	4 8,210	4 2,806	d 114,40	• 115.38		• 182.79
Country Different A	erican State or Foreign merican States or Foreign				98, 12 62, 16		189.87

<sup>a Excluding unknown sex.
b Includes "Native" and "Foreign."
c Includes "Native," and same Foreign Country.
d Includes "Foreign Father and Native Mother," and "Foreign Mother and Native Father."
e Includes "Different Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father."</sup>

MARRIAGES, 1880.

The total number of marriages returned to the State Department as having been solemnized in Michigan in 1880 was 14,149. This number will doubtless be increased when the returns of marriages for subsequent years are received, as has been the case in preceding years. Take for instance the year 1879, the number as first returned and compiled was 13,225, but there were 516 returns of marriages solemnized in 1879, that were returned with the returns of marriages for 1880, making the total number for 1879,—13,741. It is reasonable to suppose that the actual number of marriages solemnized in Michigan during the year 1880 was about 14,800.

The average annual number of marriages for the nine years 1872–1880 is 12,354. The number returned for 1880 is far in advance of this average, and is an indication of the financial prosperity of the year. One other cause, which has been mentioned on a previous page, no doubt had some effect on the high marriage-rate of 1880. A copy of the laws concerning the solemnization of marriages was mailed, as far as possible, to every person in the State authorized to solemnize marriages. The rate of marriages to every thousand of the population of Michigan in 1880 was 8.62, or one marriage to every 116 persons in the State. If the number of inhabitants in the State was limited to persons over 15 years of age, the estimate would be much nearer the true figures. As has been mentioned heretofore, it is impossible, at present, to obtain the inhabitants of Michigan, by ages, of the U. S. Census.

The following is prepared to show the average number of marriages per day, per week, etc. It will be seen that there were about 38 marriages per day in Michigan during the year 1880.

Average number per quarter	3,537.25
Average number per month	1,179.08
Average number per week	
Average number per day	38.66

The people of Michigan seem to regard the last quarter of the year, ending with December, as the most favorable season for matrimony, and the second quarter, ending with June, as the least favorable. This has been the rule, almost without an exception, for every year. The number and per cent of marriages for the quarters of the year 1880, and also for each of the years 1875–1880, may be seen in Table I., where the marriages are corrected for additional returns up to the time of making the compilation for the year 1880.

TABLE I.—Marriages by Quarters of the Year, showing Number and Per Cont. in each Quarter of the Year for each of the Years 1875 to 1880, inclusive, Corrected for Additional Returns, up to May 11, 1882.

Totals, and Months	183	75.	187	76.	187	7.	187	8.	187	79.	188	0.
WITH WHICH QUARTEES END.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
Totals	11,851	100.00	11,879	100,00	11,827	100.00	12,786	100,00	18,741	100.00	14,149	100,00
March	2,594	21.89	2,708	22,80	2,702	22,85	2,978	23.29	8,078	22,40	3,261	23.05
June	2,662	22.46	2,632	22.16	2,546	21.53	2,676	20.93	2,865	20,85	3,151	22,27
September	2,781	23.47	2,863	24.10	2,824	23.88	8,006	23.51	8,242	23.59	8,472	24.54
December	8,812	32. 17	3,670	30,89	3,743	31.65	4,116	32. 19	4,552	83.13	4,262	30,12
Unknown	2	.02	6	.05	12	.10	· 10	.08	4	.03	3	.02
Average •	2,963	25.00	2,970	25.00	2,957	25.00	8,197	25.00	3,435	25.00	3,537	25.00

[.] Including marriages in unknown quarter of the year.

In Exhibit A may be seen the number of marriages as originally returned and compiled for each of the years 1875–1880. By comparing Exhibit A with Table I. it will be seen that many returns of marriages are made after the time required by law, and that many persons who solemnize marriages are very negligent in making returns to their county clerk. This fact is greatly to be regretted, and it is hoped that the ministers and justices in the State will be more prompt in the future.

EXHIBIT A.—Marriages by Quarters of the Year, showing number and Per Cent. in each Quarter of the Year, for each of the Years 1875 to 1880, inclusive, as Originally Returned and published in Reports.

Totals, and Months	18	75.	18	78.	18	77.	18	78.	18	79.	18	90.
WITH WHICH QUARTERS END.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
Totals	11,055	100,00	10,858	100.00	11,009	100.00	12,221	100,00	18,225	100.00	14,149	100.00
March	2,519	22.79	2,599	23.94	2,633	28.92	2,901	28.74	8,039	22,98	8,261	23.05
June	2,557	28.18	2,474	22.79	2,422	22,00	2,606	21.32	2,806	21,22	8,151	22,27
September	2,625	28.74	2,677	24.65	2,646	24,03	2,906	23.78	8,133	23,69	8,472	24.54
December	8,853	80.83	8,105	28,60	8,298	29.96	8,798	31.08	4,248	82.08	4,282	3 0, 12
Unknown	1	.01	8	.08	10	.09	10	.08	4	.08	8	.02
	—		—							—		
Average	2,764	25.00	2,715	25.00	2,752	25.00	8,055	25.00	8,306	25,00	8,587	25.00

^{*} The number in unknown quarter of year included.

The following table exhibits the number of marriages recorded in each month of the years 1877-1880, and the per cent. which the number of marriages in each month is to the total number of marriages for the year. The months of October, November, and December head the list in the number and per cent. of marriages, the month of October being first in the majority of the years. Only four of the twelve months in 1880 have more than the average monthly per cent. of marriages, and those occur in the autumn months and December. For the year 1880, November has the greatest per cent. and June the smallest.

TABLE II.—Marriages by Months, Arranged in Order by Number, Months having the greatest number first, for the Years 1877 to 1880, inclusive, Corrected, for additional returns, up to May 11, 1882.

	1	877.			1878.			1879.			1880.	
M	Монтив.	Num- ber.	PerCt. of Total.	MONTHS.	Num- ber.	Per Ct. of Total.	MONTHS.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.
ORDER	Total	11,827	100.00	Total	12,786	100.00	Total	18,741	100.00	Total	14,149	100.00
1	Dec	1,277	10.80	Oct	1,398	10.93	Oot	1,558	11.34	Nov	1,474	10.42
2	Oct	1,241	10.49	Dec	1,391	10.88	Nov	1,529	11.13	Oct	1,403	9.92
3	Nov	1,225	10.86	Nov	1,327	10.38	Dec	1,465	10.66	Dec	1,385	9.79
4	Sept	1,101	9.81	Sept	1,175	9.19	Sept	1,260	9,17	Sept	1,332	9.41
5	Jan	973	8,23	Jan	1,087	8,50	Jan	1,073	7.81	Jan	1,154	8.16
6	April	942	7.96	Mar	1,011	7.91	July	1,062	7,73	April	1,125	7.95
7	July	939	7.94	Мау	954	7.46	Mar	1,025	7.46	July	1,115	7.88
8	Mar,	878	7.42	April	946	7.40	Мау	1,013	7.36	Mar	1,070	7.58
9	May	864	7.31	July	936	7.32	Feb	980	7.13	Feb	1,037	7.88
10	Feb	851	7.20	Aug	895	7.00	Apr	978	7.12	Aug	1,025	7.24
11	Aug	784	6.63	Feb	888	6.80	Aug	920	6.70	Мау	1,023	7.23
12	June	740	6.26	June	778	6.07	June	874	6.36	June	1,003	7.09
	Unk	12	.10	Unk	10	.08	Unk	4	.03	Unk	8	.02
	Aver'ge	986	8.33	Aver'ge-	1,066	8.33	Aver'ge •	1,145	8.33	Aver'ge •	1,179	8.33

[•] Includes those for unknown month.

Exhibit B gives the number of marriages, by months, for each of the years 1876–1880, and the number in the years preceding 1880 corrected for additional returns up to May 11, 1882. The months in each of the years are then equalized to months of 30.44 days, making them all of equal length. The number of marriages in this Exhibit does not agree with the number as published in the report for 1879, owing to the corrections made for additional returns. In 1880, before the months are made of equal length, June has the least number of marriages, but when of equal length May has the least.

EXHIBIT B.—Marriages Returned as having been Solemnized in Michigan during the Years 1876 to 1880, inclusive, Corrected, for additional returns, up to May 11, 1882, and Equalized to Months of 30.44 days each.

					•		M	MONTHS.						
	YEAR, IOTAL.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	j 11,879	987	88	870	8	8	8	1,069	82	1,016	1,247	1,167	1,256	8
		8 5.	+1.44	28	+:4	8	4.	8	95.	3 .	8	4.4	8	
Number by which the marriages should be increased ordi. 1849 minished to equalize them to months of uniform length.	۶۵ 	11- 1	+ 13	-18	+ 14	-16	+ 13	-19	7	+ 13	ध	+17	क्ष	-
Marriages, equalized to months of uniform length	11,872	8	88	258	976	33	814	8,	12	1,031	8,	1,18	1,283	9
4	11,827	878	88	878	942	35	75	88	2	1,10	1,241	83,	1,277	13
creased or diminished to equalize them to uniform length.		8.	+24	28	+.44	8	7.	8	25	7.	28	4.4	8	Ī
minished to equalize them to months of uniform length	+	7 -18	+74	-16	+ 17	91-	=+	-11	7-	+ 16	87	+ 18	23	
Marrisges, equalized to months of uniform length	11,884	8	9:26	802	28	3	126	8	8	1,117	,1 8 8,1	1,948	1,854	13
Marriages as returned	12,736	1,067	8	1,0,1	8	8	178	88	8	1,175	1,898	1,827	1,391	2
.39		25 .	+2.44	29.	4.4	<u> </u>	4.4	8	8	¥.+	8	4.4	8	
		Są.	+11	-18	+14	-17	+ 11	-11	-18	+ 17	ş	+ 19	2	
Marriages, equalized to months of uniform length	12,786	1,067	957	808	8	186	787	916	878	1,192	1,878	1,846	1,386	2
Marriages as returned	13,741	1,073	88	1,025	878	1,018	874	1,08	86	1,260	1,658	1,639	1,466	-
creased or diminished to equalize them to uniform length	-	200	+2.44	8 2.	#.+	8	+.4	8	8	77.+	8	+.4	8	
minished to equalize them to months of uniform length.		+61-13	8	-19	+ 14	-18	+ 13	-19	-17	+ 18	Ą	83 +	8	1
Marriages, equalized to months of uniform length	18,747	1,054	1,065	1,006	88	8	188	1,043	8	1,278	3,0	1,561	1,439	•
Marriages as returned	14,149	1,154	1,087	1,070	1,125	1,028	1,003	1,115	1,025	1,332	1,403	1,474	1,386	80
creased or diminished to equalize them to uniform length.		29 .	+1.44	8	1 .+	8	#:+	8	*	7.	8	#:	8	-
minished to equalize them to months of uniform length		- 5	+ 55	91-	+17	-18	+ 12	Ŗ	67	8+	ş	+ 22	क्ष	
Marriages, equalized to months of uniform length	16,187	1,188	1,088	1,061	1,148	1,00	1,018	98,	98,	1,38	1,878	1,496	8	80

1,550 1,500 (150) Designed by Benny Booker Deals = 125 to the inch.

TABLE III.—Distinguishing, by Counties and by Months, the number of Marriages returned as having been solemnized in Michigan during the Year ending December 31, 1880.

STATE	Year,						Mon	тна, 18	80.					
COUNTIES.	1880.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Uni
STATE	14,149	1,154	1,037	1,070	1,125	1,023	1,003	1,115	1,025	1,832	1,408	-12,474	1,885	1
Alcona	12	2		2	2	1		1		1			1	
Allegan	358	29	80	28	22	29	26	18	25	85	88	28	55	
Alpena	60	4	2		4	2	8	8	6	9	12	10	5	
Antrim	39	2	4	3	8	1	6	8	1	8	1	7	5	
Baraga	18	1	8	1		1	1	1			2	او ا	1	
Barry	232	21	19	22	13	11	9	16	16	20	28	27	30	١
Bay	217	10	13	11	17	26	15	25	24	14	28	22	12	
Benzie	83	7	1	1	2	5	1		2	6	1	5	2	
Berrien	458	89	34	37	28	83	33	41	28	52	48	48	49	<u> </u>
Branch	284	20	80	18	20	19	14	20	16		23	39	83	1
Calhoun	854	25	25	27	29	24	22	28	28		46	42	38	
Cass	220	21	15	16	14	16	16	y	18	I .	18	27	21	
Charlevoix	25	1	2	2	8		1	2	8		6			1_
Cheboygan	56	8	1	2	5	4	11	5	5	1			8	
Chippewa	20	8				li	l	2	•	li	5		6	1
Olare	39	1	1	5	2	4	6	2		1			2	
Clinton	244	16	20	16	21	24	19	17	17				27	1
Crawford	18	1	2		2				i		_		1	
Delta	68	1	5	2	9	6	4	5	11		1		1	
Eaton	266	22	21	20	17	25	1	•	25	1 -	1		19	1
Emmet	51	7	2	l ~	2	2			2	1			8	4
Genesee	884	29	20	41	32	26	25	22				82	88	l
Gladwin	4		~	•		"			l "i	4	ı	1	1	
Gr. Traverse	78	6	3	6	7	10	4	9	6	_			2	
Gratiot	191	18	15		lii	9			17		_		25	1
Hillsdale	895	85	ŀ	•	29	20	1 -	85	ı				14	,
Houghton	169	10	11	6	6	14		17	23			-	18	1
Huron	134	21	9		و ا	1 4	ii	14	2	-	1		8	1
Ingham	831	28	24	80	20	23				1			86	1
Ionia	818	28	26		21	18							85	
Iosco	88	8	1	2	8	7		8			1		6	4
Isabella	94	ءُ ا	-	l l	9	lii	12	-					7	
Isle Royalb	i	٠ ا	l °	ľ		"		ľ	100	1 '		ľ	١ '	1
Jackson	859	83	25	82	21	21	25	24	19	87	42	41	39	
Kalamazoo	265	30		29	24	16		17					11	
Kalkaska	85	6	-	1	_ ~	4	•	2	•	1	•		7	1
Kent	618	53			50	50		41			•	1	72	
Keweenaw	27	1		•	1	2							8	1
Lake	16	1 1	1	l s	2	, ×	*	1	1 -	1 1	1			1
	247	23	1	28	30	19	14] 21	1	25	17		28	1
Lapeer				25				1			•	1		1
Leelanaw	28 436	1 259		38	2 27	2					4	1	8	
Lenawee			1	1		20						1	49	1
Livingston	151	15	1		15	8		1				1	21	
Mackinac	23	8	8	4	1		1		2	4	2	8		1

Except counties from which no returns were received.
 No returns from county clerk to State Department.

TABLE III.—CONTINUED.—Marriages by Counties, by Months.

	Year,			•			Мож	TES, 18	80.					
COUNTIES.	1890.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Uni
Macomb	252	25	22	19	83	28	16	16	11	15	27	18	27	
Manistee	101	5	2	13	7	8	8	7	8	10	14	14	10	
Manitou	7	2					8	1	1					
Marquette	157	8	11	5	16	12	11	16	15	19	15	22	7	
Mason	107	8		9	12	8	10	8	10	10	8	17	8	
Mecosta	125	6	7	10	11	6	6	12	14	31	12	15	15	
Menominee	120	6	7	7	5	10	19	14	6	16	8	10	12	
Midland	50	5	8	1	4	6	5	8	2	7	2	6	6	 -
Missaukee	18		1		1		1	4	8	2	1			 -
Monroe	814	24	18	21	27	84	25	23	27	24	38	83	25	ļ
Montcalm	289	81	23	23	19	29	19	29	21	23	21	30	29	ļ
Muskegon	290	15	16	15	23	27	21	30	28	21	30		29	ļ
Newaygo	139	11	10	14	12	7	7	18	9	13	10	8	18	ļ
Oakland	286	24	27	32	222	8	12	21	15	81	83	30	81	۱
Oceana	111	11	8	8	5	8	7	14	12	9	6	7	16	
Ogemaw	6] 2					1	1	1	1	ļ
Ontonagon	14			1	1		2	2	2		5		1	ļ
Osceola	117	5	9	14	9	9	11	7	8	5	11	12	17	
Oscoda*														۱
Otsego	28	8	2		1	1	8	2	1	1	3	8	4	١
Ottawa	270	19	18	24	84	28	22	16	20	19	28	24	28	
Presque I'l,.	9	1	1	2	2	2							1	١
Roscommon.	10	1		2	1	1		2		1			2	۱
Saginaw	485	81	21	85	45	54	87	47	46	47	40	45	87	١
Sanilac	194	10	14	9	9	10	14	14	8	17	9	10	5	l
Schoolcraft.	7	 			1	1	1	2			2			١
Shiawassec	200	20	21	18	15	11	9	12	9	28	21	15	96	ļ
St. Clair	876	83	19	25	40	80	20	42	22	36	44	29	85	
St. Joseph	325	26	28	89	21	94	21	23	20	84	88	82	24	١
Tuscola	195	15	7	18	14	14	18	15	12	25	28	18	11	١
Van Buren	264	18	26	14	18	18	16	24	20	22	27	23	88	۱.,
Washtenaw.	822	88	96	36	82	21	20	17	12	30	26	83	81	ļ
Wayne	1,599	188	128	81	188	105	135	116	128	164	144	188	189	۱
Wexford	58	1	9	8	5	7	5	4	4	1	9	7	5	١
	1	i -	l ī	1	ı	1	i i	l	l	ı	l	ı	l	1

[•] County clerk says there were no marriages in 1880.

COLOR OF PERSONS MARRIED.

Some interesting facts concerning the color of persons married, and the marriage-rate among the different races may be learned in Table IV. The greatest marriage-rate is found among the African race, and includes the Black and Mulatto, the least among the Indians. Over 98 per cent. of all the persons returned as having been married in Michigan during the year 1880 were White. According to the table there were 77 persons in the State who married those of another color, 39 males and 38 females. The table also shows that the marriage-rate is greater among females than among males, this being true, not only among all females, but also among the females of each color.

TABLE IV.—Exhibiting, by Color and by Sex, the Number of Marriages, and the Number and Per Cent. of Total Number of Persons Married in Michigan during the Year 1880, according to the Returns; and the Per Cent. of Persons Married in 1880 to Population in 1880.

·						. D	
		Popula- tion June 1,	Number		Married, 80,	Per Cent. of Persons Married in 1880 to	Number of Per- sons who
COLOR,—1890.	SEX.	1880, Represented by Marriages in 1860.	Marriages, 1880.	Number.	Per Cent. of Total.	Popula- tion June 1, 1880, by Sex and Color.	Married those of another Color.
1	Total	1,686,882	14,149	28,298	100.00	1.78	77
All Colors	Males	a 862,824		14,149	50.00	1.64	39
	Females	774,558		14,149 50.00 14,149 50.00 879 27,772 98,10		1.83	38
	Total	1,614,505	18,879	27,772	98.14	1.79	23
White	Males	850,765		13,905	49.14	1.68	19
į	Females	768,740		14,149 50.00 879 27,772 98.14		1.83	4
1	Total		95	177	.68		17
Black	Males			95	.84		15
į	Females			82	.29		2
1	Total		47	108	.86		17
Mulatto	Males	100000000		47	.17		4
•	Females			56	.20		18
1	Total		32	89	.29	1.18	20
Indian	Males	3,696		33	.11	.87	1
	Females	8,558		50	.18	1.41	19
	Total		96	164	.56		
One or Both Unknown.				70	.25		
	Females			94	.83		
(Total	15,100	79	280	,99	1.85	84
Black and Mulatto	Males	7,885		142	.50	1.81	19
į	Females	7,265		188	.49	1.90	15

⁻ Includes 28 Asiatics.

Table V. shows the color of persons married in 1880 in each of the counties of the State with the exception of Isle Royal, from which no returns were received, and which is the only county not represented.

TABLE V.—Exhibiting for the State and Counties, the Number of Marriages Returned as having been Solemnized in Michigan during the Year 1880, the Number of Couples of White Persons, and by Color the Number of Marriages where one or both parties were other than White.

		Con	OR OF PI	ersons Ma	BRIED, 18	80, STATED	BY COUPI	ES.
STATE AND COUNTIES.	Marriages, 1880.	White.	Black.	Mulatto.	Indian.	FEMALE UNE. Male White.	MALE UNK. Female White.	Both Unknows.
State	14,149	▲ 13,879	b 95	e 47	d 32	26	2	68
Alcona	12	12						
Allegan	858	358						
Alpena	60	60					·	
Antrim	89	37			2			
Baraga	13	• 12		•••••	f 1			
Barry	233	230				2		
Bay	217	g 214	à 1		2			
Benzie	83	83						
Berrien	458	447	16	1 5				
Branch	284	283		1				
Calhoun	854	341	1	18		8		6
Cass	220	211	k 4	5				
Charlevoix	25	25						
Cheboygan	56	1 54	! 		2	 	 	•
Chippewa	20	7						18
Clare	39	89					 	
Clinton	244	242	m 1			1		
Orawford	13	13			·			
Delta	- 66	68						
Eaton	266	265				1		
Emmet	51	n 49		•	1 2			
Genesee	334	830	m 8	1				

a 11 couples, male White, female White and Indian; 3 couples, male White, female indian; 3 couples, male White, female indian; 4 couples, male White, female indian; 5 couples, male White, female White, and 1 couple, male Chinese, female White, and 1 couple, male Chinese, female White, and 1 indian, 5 decouples "Colored;" 12 couples, male Black, female Mulatto; 3 couples, male Black, female White and Indian; 1 couple, male Black, female White and Indian; 1 couple, male Black, female White, and 1 couple, male Black, female White, female Indian.

1 couple, male White, female Black, female White, female Indian.

2 couples, male White, female "Quadroon;" 1 couple, male Mulatto, female "Quadroon;" 2 couples, male Mulatto, female "Quadroon;" 2 couples, male Mulatto, female "Quadroon;" 2 couples, male Mulatto, female "Quadroon;" 2 couples, male Mulatto, female White, and 2 couples, male White, female Mulatto.

3 couples, male White and Indian, female "Haif." 2 couples, male White, female Mulatto.

4 3 couples, male Mulatto, female "Haif." 2 couples, male White, female Mulatto.

3 couples, male Mulatto, female "Haif." 2 couples, male White, female Mulatto.

4 3 couples, male Mulatto, female "Haif." 2 couples, male White, female Mulatto.

3 couples, male White, female Indian. 3 1 couple, male Mulatto.

4 3 couples, male White and Indian; 3 1 couple, male Mulatto.

4 3 couples, male White and Indian; 3 1 couple, male White, female Indian.

3 couples, male White, female Indian. 3 1 couple, male White, female Indian.

4 3 couples, male White and Indian; 3 1 couple, male White, female Mulatto.

5 1 couples, male Mulatto, female "Haif." 2 couples, male White, female Mulatto.

5 1 couples, male Mulatto, female "Haif." 2 couples, male White, female Mulatto.

5 1 couples, male White, female "Haif." 2 couples, male White, female "Haif." 2 couples, male White, female "Haif." 2 couples, male White, female "Haif." 2 couples, male White, female "Haif." 2 couples, male White, female "Haif." 2 couples, male White, female "Haif." 2 coup

TABLE V.—Continued.—Marriages in 1880, by Counties, by Color.

		€ 01	OR OF P	ersons Ma	RRIED, 1	880, STATE	D BY COUP	LES.
COUNTIES.	Marriages, 1890.			<u> </u>		FEMALE UNE.	MALE UNE.	Both
		White.	Black.	Mulatto.	Indian.	Male White.	Female White.	Unknown.
Gladwin	4	4						
Grand Traverse	78	78						
Gratiot	191	188				3		
Hillsdale	395	395						
Houghton	169	169						
Huron	184	129		• 1		1	1	2
Ingham	831	b 325	٠,	2	 			
Ionia	318	316	41		 			1
Iosco	86	85			1			<u>k</u>
Isabella	94	89	• 1		1 2			2
Isle Royal			 					
Jackson	859	851	h 7	1			·	
Kalamazoo	265	219	2	1		5		39
Kalkaska	35	35						
Kent	618	610	1	5		1		1
Keweenaw	27	27		••••				
Lake	16	16						
Lapeer	247	247						
Leelanaw	28	26			2		! 	
Lenawee	436	436						
Livingston	151	151						
Mackinac	28	1 16		1	J 6			
Macomb	252	251	1					
Manistee	101	101						
Manitou	7	7						
Marquette	187	157						
Mason	107	k 106	1					
Mecosta	125	122		2	1			
Menominee	120	116				3		1
Midland	50	50						
Missaukee	18	18						
							l	

a 1 couple, male "Light Brown," female
'Light."

1 couple, male Chinese, female White.
1 couple "Colored," and 2 couples, male Black, female Mulatto.
1 couple, male Black, female Mulatto.
1 couple, male Black, female Mulatto.
1 couple, male Black, female Mulatto.
1 couple, male Black, female Mulatto.
1 couple, male Black, female Mulatto.
1 couple, male Indian, female Indian, and 1 couple, male White and Indian, female White.
1 couple, male Indian, female White and Indian, female White and Indian.
1 couple, male White and Indian, female White and Indian.

TABLE V.—CONTINUED.—Marriages	in	1880.	by Co	ounties.	bu	Color.
-------------------------------	----	-------	-------	----------	----	--------

		Cor	or of Pr	REONS MAI	RRIED, 18	80, STATE	D BY COUP	LES.
COUNTIES.	Marriages, 1880,	White.	Black.	Mulatto.	Indian.	FEMALE UNK.	UNE.	Both Unknown.
						Male White.	Female White.	
Monroe	314	314						
Montcalm	280	285	 	• 1	 	2	1	
Muskegon	290	28⊎		1	ļ. 			
Newaygo	182	182						
Oakland	286	283	3			<u>:</u>		
Oceana	111	107	 	ļ. 	4			
Ogemaw	6	6			ļ			
Ontonagon	14	13			b 1			
Osceola	117	117						
Oscodac								
Otsego	23	23						
Ottawa	270	266				4		
Presque Isle	9	9						
Roscommon	10	10						
Saginaw	485	479	1		5	•		
Sanilac	124	124						
Schoolcraft	7	6		• 1				
Shiawassee	200	200			 	••••		
St. Clair	376	374	1		1		•••••	
St. Joseph	325	324	1					
Tuscola	195	195						
Van Buren	264	258	4	2				
Washtenaw	322	307	7 8	• 9				
Wayne	1,599	f],516	g 45	• 5				8
Wexford	53	53						

The manner of union by nativities of persons married in Michigan in 1880 can be seen in Exhibit 1. According to the evidence there given 8,796 nativeborn females married native-born males, 1,059 foreign-born females married native-born males, and 103 females of unknown nativity married native-born Also that 9,958 females of all nativities married native-born males, 4,024 females married foreign-born males, and 167 females married males of unknown nativity. Again, that 10,672 males of all nativities married nativeborn females, 3,219 males married foreign-born females, and 258 males married females of unknown nativity.

al couple, male Mulatto, female White.
l couple White and Indian.
County clerk says there were no marriages in 1880.

4 I couple, male Black, female Mulatto.

1 couple, male Mulatto, female Black.

f 1 couple, male White, female French and In-

f l couple, male White, female French and Indian.
s 12 couples "African," 18 couples "Colored,"
2 couples, male Black, female Mulatto, 1 couple,
male Black, female White and Indian, 1 couple,
male Black, female Octoroon, and 1 couple, male
"African," female White.

The last column in the exhibit shows that 70.38 per cent. of all bridegrooms in 1880 were native-born, 28.44 per cent. were foreign-born, and 1.18 per cent. were of unknown nativity. In like manner the brides,—75.43 per cent. of all brides in 1880 were native-born, 22.75 per cent. were foreign-born, and 1.82 per cent. were of unknown nativity.

EXHIBIT 1.—By Nativity, the Number and Per Cent. of Brides and of Bridegrooms Returned as having been married in Michigan during the Year ending December 31, 1880, and by number, the manner of their Union by Nativity.

	В	RIDES, 18	80,	BRIDEG 1880	
BRIDEGROOMS AND BRIDES, NATIVITY SPECIFIED.	Native.	Foreign.	Un- known.	Total of each Na- tivity, and of all Nativi- ties.	Per Cent. of each Nativi- ty.
	ļ				
Native	8,796	1,059	103	9,966	70.88
Bridegrooms Foreign	1,842	2,151	81	4,024	23.44
(Unknown	84	9	124	167	1.18
(Whole No. of each nativity and total.	10,672	8,219	258	14,149	
Per cent. of each nativity and total	75.43	22.75	1.82		100.00

TABLE VI.—Exhibiting, by Sex, the Nativity of Persons returned as having been Married in Michigan during the Year 1880.

NATIVITY.		iages, 80.	KEPBES	rion Jun Bented e Ges in 1	Y MAR-	1	PERSO		Mar Popu	nt. of Fried in	1880 to
	Number.	Per Cent. of Total.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Total	14,149	100.00	1,636,882	862,324	774,558	28,298	14,149	14,149	1.78	1.64	1.83
Native	8,796	62.17	1,248,895	642,913	605,482	20,630	9,958	10,672	1.65	1.55	1.78
Foreign Male and Native Female Foreign Female and Native Male	2,151 1,842 1,059			219,411	169,076	7,243	4,024	8,219	1.96	1.83	1.90
Unknown	a 801	2.13				425	167	258			
One or Both Native	11,834	83.64									
One or Both Foreign	5,002	85.99	ļ								

a Includes cases where one or both are unknown.

Some interesting facts concerning the marriage-rate of the native and foreign-born inhabitants are shown in Table VI. The rate among the foreignborn is greater than the rate for either the native or the total for all nativities. But the teaching of this table is not strictly correct, for the reason that the statement of the number of native-born inhabitants includes children at all ages, and it is a well known fact that the foreign-born population consists largely of persons at marriageable ages. If the statement of the population of each nativity was made from persons 15 years and over, it would be found that the marriage-rate among the native-born inhabitants is much larger than is stated in this table.

AGES OF PERSONS MARRIED.

The average age of persons married in Michigan in each of the years 1877-1880 may be seen in the following exhibit. The average age is given, by sex, for all nativities, native, foreign, and unknown. The average annual age of the males of all nativities for the seven years 1874-1880 is 28.07 years, and the average annual age of the females of all nativities for the same period of years is 22.76 years. The difference between the average ages of the males and the females is 5.31 years.

EXHIBIT C.—By Nativity, the Average Age of Persons Married in Michigan in 1877-1880, inclusive, according to the Returns.

	18	77.	18	78.	18	79.	18	80.
NATIVITY OF PERSONS MARRIED.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.
All nativities	28,25	23.06	28.01	22.91	28.01	23.00	28.08	23.20
Native	27.76	22.59	27.46	22.54	27.48	22,65	27.59	23.83
Foreign	29.53	24.63	29.51	24.28	29.42	24.28	29.29	24.42
Unknown	27.75	24.36	28.82	23.62	23,00	24.83	28.31	23.87

Many interesting features of Table VII. are omitted because of the lack of statistics of the inhabitants, such as the population at each age and period of age, and the per cent. of marriages to population of corresponding ages. The table, however, still contains much that is valuable and worthy of study. It shows the total number of persons married in Michigan in 1880, and the number and proportion of each sex at different periods of age. Over 70 per cent. of all the males married in Michigan in 1880 were between the ages of 20 and 30 years, and over 50 per cent. of the females were married at the same period of age. Between the ages of 21 and 25 years the proportion of the sexes is nearer equal than at any other period.

Exhibit 2, page 85, shows for the year 1880 the number of males and females married in Michigan at each age, and the excess of the sexes. The greatest excess of males is at the age of twenty-five years, and the greatest excess of females is at the age of eighteen. The excess of females only occurs at the ages of twenty-one years and under, with the exception of fifty-three, the males being in excess at every other age specified.

TABLE VII.—By Sex, and Periods of Age, the Number and Per Cent. of Total Number of Persons Married at each Age and Period of Age, during the Year 1880; and the Per Cent. of each Sex at each Age and Period of Age to the Total Number of both Sexes.

				Marriages,]	880,		
AGES IN YEARS	Total		MALES.			FRMALE).
AND PERIODS.	Number of Persons Married.	Number Married.	Per Cent. of Total Marri- ages.	Per Cent. of Persons Married at Correspond- ing Ages.	Number Married.	Per Cent. of Total Marri- ages.	Per Cent. o Persons Married at Correspond ing Ages.
All ages	28,299	14, 149	100.00	50,00	14,149	100,00	50.00
19	1				1	.01	100.00
18	4				4	.03	100.00
14	24				24	.17	100.00
15	122	2	.01	1.64	120	.84	98,86
16	757				757	5.85	100,00
17	1,072	9	.06	.84	1,003	7.51	99.16
18	1,638	91	.64	5,56	1,547	19.93	91.44
19	1,752	247	1.75	14.10	1,505	10,64	85,91
20	2,015	556	3,93	27.59·	1,469	10.81	79.41
21 to 25	9,318	5,265	87.21	56.50	4,053	28.65	48.50
25 to 30	5,974	4,256	80.08	71.24	1,718	12,14	28,76
30 to 35:	2,183	1,518	10.73	69.54	665	4.70	30.46
85 to 40	1,230	795	5.62	64.63	485	8.07	35.37
40 to 45	728	442	3.12	61.18	281	1.99	38,87
45 to 50	450	287	2.03	63.78	168	1.15	36,25
50 to 55	320	203	1.48	68.44	117	.83	86,56
55 to 60	236	174	1.23	73.73	62	.44	26.27
60 to 65	161	114	.81	70.81	47	.88	29, 19
65 to 70	88	62	.44	70.45	26	.18	29.55
70 to 75	53	40	.35	92.45	4	.cs.	7.55
75 to 80	15	13	.09	86,67	2	.01	18.83
80 and over	18	11	.08	84,62	2	.01	15,88
Unknown	149	55	.89	36,91	94	.66	63,09
Under 15	29				29	.20	
15 to 20	5,841	849	2.47	65.84	4,992	85.28	98.47
20 to 25	11,333	5,821	41.14	51,36	5,512	88,96	48.64

EXHIBIT 2.—Number of Persons Returned as having been Married in Michigan in 1880, by Sex, and Excess of the Sexes, by Age in Years.

4 %	PERSONS	MARRIE	D IN 1880.	Exc	E88.	겉혀	PERSONS	MARRIE	D IN 1880,	Ezc	ess.
Ages in Years.	Total.	Males.	Fe- males.	Males.	Fe- males.	Ages in Years.	Total.	Males.	Fe- males.	Males.	Fe- males
All ages	24,298	14,149	14,149			48	92	59	83	26	
						49	62	41	21	20	
12	1		1		1	50	112	76	36	40	
13	4		4		4.	51	53	81	22	9	
14	24		24		24	52	48	35	13	22	ļ
15	122	2	120		118	53	50	21	29]	
16	757		757		757	54	57	40	17	23	
17	1,072	9	1,063		1,054	55	65	43	22	21	
18	1,638	91	1,547		1,456	56	62	51	11	40	
19	1,752	247	1,505		1,258	57	39	31	s	28	
20	2,015	556	1,450		903	58	35	26	9	17	
21 .	2,464	1,151	1,310		156	59	35	23	12	11	
22	2,439	1,318	1,121	197		60	45	33	12	21	
23	2,338	1,459	879	590		61	33	25	8	17	
24	2,077	1,334	748	591		62	29	22	7	15	
25	1,633	1,122	511	611		63	26	15	11	4	ļ
26	1,444	1,026	418	603		64	28	19	9	10	ļ
27	1,113	821	293	529		65	24	15	9	6	ļ
28	1,053	762	291	471		66	19	13	6	7	ļ.
29	731	525	206	319		67	13	11	2	9	ļ
30	694	481	213	268		68	21	14	7	7	
31	390	264	126	188		69	11	9.	2	7	
82	449	311	138	173		70	24	22	2	20	
83	33 8	246	92	154		71	10	9	1	8	
84	812	216	96	120		72	7	7		7	ļ
35	853	239	114	125		73	8	8		8	
36	265	164	101	63		74	4	8	1	2	
87	193	121	72	49		75	7	6	1	5	
38	231	158	73	85		76	3	2	1	1	
39	188	113	75	38		77	3	3		8	
40	9:27	151	76	75		78	1	1		1	
41	113	65	48	17		79	1	1		1	
42	154	87	67	20		80	8	6	2	4	
43	129	77	52	25		13	2	2		2	
44	100	62	38	24		83	1	. 1		1	
45	127	77	50	27		84	1	1		1	
46	98	63	35	28		85	1	1		1	
47	71	47	24	23		Unk	149	55	49		35

TABLE VIII.—Exhibiting for the State and Counties, by Sex, the Nativity and Age in Periods of Years, of Porsons Returned as having been Married in Michigan during the year ending December 31, 1880.

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T AG	\$	\$. .	5.42 2.42		8 ~	61-	64 20		∞ ∞	0.4		20	200	28
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AT DIPPERRYT AGES, STATED IN PERIODS OF YEARS, 1880.	8	\$	ૹ	2,183 1,518 646		8=	96	***	61	at a	g x	∞ ~	22	## 14	##
GES AT	ន	\$	8	5,974 4,256 1,718	80 80	= 9	8 8	12	9	22	88	~ 8	150	828	64
Marriages	20	đ	13	11,833 5,821 5,512	~-	157 127	22	22	80 8 0	2 2	828	ឌ=	211 387	252 88	88
-	ďa	der	ģ	5,370 349 5,021	20	8 1	18	- 92	-	22.88	7 6	18	13 151	110	* 5
	SEX	STATED.		Total Males Females.	Males Femsles.	Males Females.	Males	Males Females.	Males Females.	Males	Males Femalcs.	Males	Males Females.	Males.	Wales
		ST		Tot Fer		Fer	Ma	Ma	Fer	Ma	Ma	Ma	Fer	Fer	H.
PLES	OWD.	ıyu g	Both	• 184									9		
X Cor	MALES UNENOWN.	Females.	For- eign.	4 00											
ATED I	DNE	Fem	Na. tive.	ಪ		İ									-
880, ST	FEMALES Unerown.	Males.	For- eign.	b 31			-		`					Ī	Ī
RIKD, 1	FER	Ä	Na- tive.	b 103		1							2	64	10
MAR	Foreign	Dales,	tive Males.	1,069	31	8	6	•	-	69	88	10	ន	0	25
OF PERSONS MARRIED, 1880, STATED BY COUPLES.	Foreign	•	Fe in	1,842	**	8	•	2	2	ន	9	40	83	0	23
E	elgn.			191,2	69	8	25	9			2	••	21		10
Nativi	.ovi	aN	Воєћ	8,736	ص		13	81	4	8	8	8	38	8	<u>\$</u>
	1880, 1880,	tet c	Mum Tabl	14,149	25	88	8	23	22	Ħ	217	8	85		<u>\$</u>
	E .	1 2		1					i	i	<u></u>			į	:
	STATE	COUNTIES		STATE.	Alcons	Allegan	Alpena	Antrim	Baraga	Barry	Вау	Benzie	Berrien	Branch.	Calhoun

Cass	08	197	67	ន	•	i		*			Males	eo 25	52	82	7-	→ 100	-8	7		$\overline{\coprod}$	=	-1	$\frac{\dot{\Pi}}{\Pi}$	İ	-
Charlevoix	*	=	10	20	60					i	Males	7	6 %	24	•-	:	<u> </u>	07	i-					Ħ	::
Cheboygan	28	92	2	82	7	i				-	Males Females.	•• ह्य	S S	80	∞	01 00	84 -	<u> </u>				11	Ħ	Ħ	
Chippewa	8	-	2	**	64					i	Males	00	22	~6 1	•	$\frac{++}{11}$	<u> </u>	11	<u> </u>	11	11	III	Ħ	Ħ	;;
Clare	8	25	64	7	00			i		-	Malos	ន	82	3 -	64		1	<u> </u>	-	11		11	Ħ	11	04 04
Clinton	778	룕	∞	22	*	-	Ī	64			Males	101	100	£81	ã e	20		81	461	-	en ==	-	ii	11	
Crawford	22	00		*	-		i		-	-	Males Females.		410	80 64		<u>;</u>	<u>-</u> -	67 :	<u> </u>		-	11	ii	Ħ	
Delta	8	=	8	22	**	-	-	-		i	Malcs Females.	618	ន្លន	37	96	410	87	<u> </u>	<u> </u>	11		11	ii	11	
Eaton	380	88	64	91	7	C4	-	-		i	Males Females.	=28	115	278	22	5 a	≈ 4 ∞ ≈	2000	۰,	***	01 01	∞ ;	64	$\dot{\exists}$	•
Emmet	5	8	7	7	65	-		i		- 1	Males Females.	od 83	138	2 89	n →	10 CH	8-1	∞ ¬	61			-	ij	$\overrightarrow{\Pi}$	11
Genesce	ž	នី	=	*	ដ	¢1	64		-	10	Males Females.	22	137	22	116	81 x	22	4	67	~	-	11	ii	TI	
Gladwin	7	61	i	69				-	i		Males	i	-	-3	64		-						ii	Ħ	! !
Gr. Traverse	ts.	æ	1	22	70	, ,	-	i		i	Males	ب 8	≅8	St.	e	61 ⊶	64 64		-				Ħ	Ħ	! !
Gratiot	191	35	1	7	э.	i	i			64	Males	~ <u>&</u>	88	路記	70	10 60	* :	~ :	61	ii	-61	∞ ;	Tİ	- i	
Hillsdale	2	8	04	12	•	89				-	Males Females.	148	148	28	ន្តន	118	1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.4	9-	10 CH	64 ~	61 ~	$\overrightarrow{\parallel}$	- i	~6
Houghton	2	81	8	81	G.	•		:	i	1	Males Females.	27	2 %	87	200	0 →	42	~~		<u>i</u> -	11	11	Ħ	Ħ	11
Huron	3	*	8	88	36	69	61	$\overline{\parallel}$		61	Males	o-8	35	\$5	=-	∞ →	***	9 99		<u>- i</u>	-			11	
P Ex	cept c	Except county of Isle Royal, from which no returns were received.	of Isle	Roya.	l, fron	which	h no r	turns	Were	rece	ived.		b I fe	b I female "America."	Amer	ica."				na,le	V ,, 1	• 2 males "America."	w		

Except county of Isle Royal, from which no returns were received.
 3 males "America,"
 1 couple "America,"

TABLE VIII.—Continued.—Marriages by Counties, Nativily, and Periods of Age.

		NATIVIT	►	OF PERSONS MARRIED, 1880, STATED BY COUPLES.	18 MAR	RIED, 1	880, ST.	ATED B	T COU	LEB.			Marriages at Different Ages, Stated in Periods of Years, 1880.	GES AT	DIFFE	RENT	AGE	, ST	TED	ra Pa	RIOD	98 04	YEA	R8, 1	8	
	Couples	Ye.	.ust	Fore	Forefan	FEE	FEMALES UNENOWS.	Daka Uska	MALES UNEROWN.	OMD.	SWX	ÇB.	95	23	8	13	9	13	25	120	- 99	13	2	12	er.	
COUNTIES.		ljaN.	точ	Males.	Fo- males,	l	Males.	Females.	Fles.	anja U	STATED.	der	2	9	to	9	to	9	2	to	to	to	9	2	AO D	пжог
	dmaN htsM	Воср	Воер	Fe- males.	tive Males.	Na- tive.	For-	Na- tive.	For- eign.	Both 1		20.	53	30.	35.	40.	45.	20.	22.	.09	65.	70.	75.	80.	an 08	плип
Ingham	ä	278	7	21	36	*				i	Males Females.	134	148	302	120	00	0.00	400	====	01 01		10-	11	11	11	124
Ionia	88	540		25	ន	∞		o		*	Males Females.	115	136	91	1625	100	00.10	900	20:20	401	101	61-	-	-		
Iosco	**	25	7	2	7.					i	Males	36	37.	31	17	100	60	Ol	-1	11	11	11	11	11	11	11
Isabella	ತ	8	0	4	•	••				61	Males	61.93	22	24	10 01	00	4	0101	-	11	11	-	11	11	11	H
Islo Royal					!						Males					11	11	11	11	II	11	11	11	11	11	11
Jackson	88	282	81	8	7	4				64	Males Fomales.	131	185	93	91 93	80	22	94	9 1	00.04	01-	H	04	11	11	
Kalamazoo	288	217	60	22	52	1	*	84		*	Males Females.	25	106	30	14	22	72	NO 00	-01	9-	01	11	01	11	04	6
Kalkaska	28	8	*	10	•					61	Males	아닭	16	21-	(D) (01	20 01	01	-1	11	TI	11	j-	-	11	11	11
Kent	818	5 6	91	16	3	10		-		_	Males Fomales.	14 200	266 256	164	57.22	88	16	8	r- 30	13	10 cs	01	- 1	1	1	
Комеепа	23		91	0	-						Males Females.	13	55 e	00 00	87	917	7	11	H	11	11	11	11	11	11	11
Lake	98	얼	•								Males	00	0.0	44	7	+1	-11	11	01	11	-1	11	11	11	11	
Lapser	247	25	8	8	8	•••					Males	- 66	=3	92	el æ	60	00	900	*-	00 00	9	11	П	11	11	11

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īi	94	11	11	11	ıi	11	11	11		11	-	11	11	: 1	-	11
	617	11	11				11	7		11	11	11	- :	11	11	11
	61	1:	11	64	1:	11	11	- i	- ;	11		11	11	11	11	11
ī	4 ¬	04	11	11	II	11	11	11	- !	11			-	- !	11	-
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$\overline{\coprod}$	400	60 04		60 64	84	11		•	04 20	-]]	69 69	4	- :	-
<u> </u>	40	64		80 4	-01				<u>- i</u>	<u>- :</u>	<u>- i</u>	<u>- i</u>	** **	F-01	81-	-:
	64	64		0.10			90	→∞	~		-01	-	60	61.60	P 24	04 T
<u> </u>	21-	6 4	<u>- i</u>	+∞	* !		01 61	40	+	~**	٥٠ :		∞ →	2*	25	60 64
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-6	18	28	i=	8 8	 8	i	48		-3	-8	- ដ	60	36.5	11.0	*8	77
			<u> </u>													
8	9	8	80	8	8	8	88	8	88		68.	80	8	98	88	68
Males Females	Males	Males Females.	Males Females	Males Females.	Males Females.	Males Females.	Males	Males Females.	Males Females.	MalesFemales.	Males	Males	Males	Males Females.	Males Females.	Malos Females
Males	7 Males	Males	Males Females	Males Females.	Males Females.	Males	Males Females.	Males	Males Females.	Males	Males Females.	Males	Males	Males	Males Females.	Males
Females	_		Males Females	Malcs Femalos.	Males Females.	Males	Males		Males Females.			Males			Males Females.	
<u>:</u>	~	•	Males	-			<u> </u>	64	-	-	-		••		!	
<u>:</u>		•	Males Females					64		1 1						
<u>:</u>	1 7	-						61	1	1 1				4	61	
<u>:</u>	1 7							61	1	3				4	61	
<u>:</u>	1	61			1 2			2	1	8			s +	50	61	
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<u>:</u>	25 11 29 1	2 11 2	8	71 48	11 7 11 2	1	16 9	25 9 1 2	23 17 1	8 1	8 4		42 16 4 8	\$ 06 Z6	41 28 3	8
	es	64	w eo		47 11 7 1 2	1	108 16 9	25 - 25 - 25 - 25 - 25 - 25 - 25 - 25 -	17 1	8 8 9 1 1 1		60	17 42 16 4 8 3	87 82 90 8	95 41 29 1	8 8 00 8

No returns from county clerk.

TABLE VIII.—Continued.—Marriages by Counties, Nativity, and Periods of Age.

	89	NATIVI	H	PERSON	OF PERSONS MARRIND, 1880, STATED BY COUPLES	RIRD, 18	'80, ST	TED BY	r Cour	LES.		4	Marriages at Dipperent Ages, Stated in Periods of Years, 1880.	GES AT	DIFF	RENT	AGE	s, ST.	TED	ги Ра	RIOD	8 07	YEAS	18, 18	. 90.	
	Coupl 1880.	.9AI	etgn.	For-	Forelgn	FEM. UNER	FEMALES UNEROWN.	MALES Unenown	MALES KENOWN.	nown.	SEX	ď	8	25	30	22	40	45	20	20	09	- 29	70	12	.197	***
COUNTIES	10 19 16d,	aN.	For	Na.	males,		Males.	Females.	ales.	ηuΩ	STATED.	der	2	\$	to	9	9	to	9	2	9	to	to	to.	o pt	UMOU
	dms K mald	Воєр	воер	,	tive Males.	Na- tive.	For- eign.	Na-	ega.	Воср		8	8	ક્ર	32.	40.	45.	20.	92.	99	.59	70.	75.	80.	1n 08	Опкл
Oakland	82	ğ	-	18	8	-				4	Malos Females.	78	100	23	36	19	ct to	-	614	411	00	- 1	-	-	11	Ш
Oceana	H	12	&	8	10	H		-		-	Males Females.	-8	4 2	33	00.10	2010	614	68	-01	64	-	-01	-	11	11	11
Овешат	•		••	64	i	-					Males Females.		80	61 64	1	- 1	-	-1	III	in	11	11	H	11	11	11
Ontonagon	=	, =	-	61		:	,				Males Females.	9		9	1	11	11	11	11	11	11	Ϊİ	Ħ	11	11	il
Osceola	117	\$	ध	92	*	:				1	Males Females.	-13	22	82	36	617	401	01	01	-	11	ii	Ti	11	11	99
Oscoda					İ	i				-	Males Females.					11	11	11	11	11	11	ii	ii.	11	11	11
Otsego	ដ	=	10	69	•						Males Femalcs.	13	20	20 64	61		11	-1	-1	11	ii	ΪÌ	Ħ	11	11	-
Ottawa	S.	25	3	*	5	20	64 A		04	64	Males Females.	848	100	28	28	250	8	919	90 00	0101	9	-4	Τİ	11	11	ï
Presque I.	0	İ	60		69		i			<u> </u>	Males	7	69 🕠	9		11	11	11	II	11	ii	ii	Ti	11	11	11
Roscommon.	2	*	•	-	-	-					Males	1	1010	69 69	01	61	-	11	II	11	Ti	Ti	11	11	11	11
Saginaw	\$	205	99	90	28	_				-	Males	172	88	£2	88	13	51.0	10 00	91	00		TÌ	- 1	11	11	00 00
Sanilac	25	श्च	8	 25	- 52						Males Females.	-8	84	ဗ္ဗ	40.00	000	4-	89 -	01-	11	11	ii	ii	11	11	11
Schooleraft.	-	-		Ø							Males Females.	*	-01	87	1	-	-	11	Ħ	11	11	ii	ΪÏ	11	II	11

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22	117	87	នដ	88	84	511	7.	
22	25	280	23	22	163	25 C	128	
~#	137	=13	∞ 2.	28	~ 8	818	12	ica."
Males	Males	Males Females.	Males Females.	Males	Males Females.	Males	Males Females.	b I female "America."
7	-	6		-		8		9
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<u>:</u>					i			1880
-	-			••	61	•	٥١	res in
=	25	-	12	•	ಷ	18	•	arria
8	11	18	88	7.	\$	294	6	were no marriages in 1380
2	911	8	*	90	23	4 61	9	
3	91	â	92	83	712	8	ध	the state
3	376	22	8	35	22	1,500	8	rk as
Shiawassoe. 500	St. Clair	St. Joseph	Tuscola	Van Buren.	Washtenaw.	Wayne 1,599	Wexford	• County clerk says ther

According to Table IX. 7,385 persons were married in this State during the year 1880, who were under the age of twenty-one years, of which number 905 were males, and 6,480 were females. Over 45 per cent. of all the females married in 1880 were under the age of 21 years. The number of persons married under 21 years of age in Michigan in each of the years 1869–1880 is as follows: 1869, 4,390; 1870, 4,905; 1871, 5,425; 1872, 5,286; 1873, 5,539; 1874, 5,946; 1875, 6,017; 1876, 6,122; 1877, 6,100; 1878, 6,894; 1879, 7,109; and 1880, 7,385. This shows, with a few exceptions, a gradual increase from year to year. In the year 1880, 11 males and 149 females were married in Michigan who were not of legal marriageable age. Only males who have attained the full age of 18 years, and females who have attained the full age of 16 years, are capable in law of contracting marriage.

TABLE IX.—Exhibiting, for the State and Counties, the Total Number, and Number of each Sex under 21 years of Age; and the Number of each Sex at each Age under that of 21 years, Returned as having been Married in Michigan during the year ending December 31, 1880.

STATE		ONS MA		AG	RS OF	MAI	.xs, 1	880.		A	GES	of F	BMAI	.ms, 1	880.		
AND	OF	AGE, 1	880.		en.	en.	een.a	•	3	en.	en.	een.	7.	4.	en.s	P.U.	
COUNTIES.	Total.	Males.	Fe- males.	Twenty.	Nineteen.	Elghteen.	Seventeen	Fifteen.	Twenty.	Nineteen.	Eighteen.	Seventeen	Sixteen.	Fifteen.	Fourteen.	Thirteen.a	Twelve.a
STATE	7,385	905	6,480	556	247	91	9	2	1,459	1505	1547	1063	757	120	24	4	1
Alcona	5		5						2		2	1					
Allegan	204	22	182	14	5	3			38	45	42	26	25	6			
Alpena	24	2	22	1		1			6	6	8	2					
Antrim	23	2	21	1		1			5	4	1	4	5	1	1		
Baraga	7		7						3	1			2	1			
Barry	147	29	118	16	11	2			20	35	26	18	18		1		
Bay	127	11	116	7	4				26	30	26	17	14	1	2		
Benzie	21	3	18	2		1			2	7	2	3	2	1			1
Berrien	231	37	194	24	10	3			43	52	47	35	13	3	1		
Branch	158	23	135	14	4	5			25	25	44	25	15	1			
Calhoun	168	18	150	12	2	4			34	47	34	20	15				
Cass	124	15	109	12	3				27	27	27	17	11				
Charlevoix	15		15						1	2	2	4	6				
Cheboygan	84	2	32		1	1			3	9	10	4	3	2	1		
Chippewa	12		12						4	1	4		3				
Clare	31	3	28	3					3	4	4	9	5	2	1		
Clinton	153	19	184	14	3	2			33	30	39	19	9	4			
Crawford	8	2	6	1	1				1		3	2					
Delta	35	3	32	1	2				3	11	9	4	5				
Eaton	140	20	120	9	7	4			32	25	29	19	12	2	1		

a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1871, pages 1462, 1463, and 1464.

TABLE IX.—CONTINUED.—Persons Married under 21 Years of Age.

	UND	ons Ma er 21 Y	EARS	Δe	ES OF	MA	LES, 1	880.	_	19	Agrs	or l	FEMA	LES,	1880		
COUNTIES.	Total.	Males.	Fe- males.	Twenty.	Nineteen.	Elghteen.	Seventeen.	Fifteen.a	Twenty.	Mineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.a	Fourteen,	Thirteen. a	Twelve.
Emmet	31	8	28	1	1	1			3	6	6	4	7	1		1	
Genesee	184	23	161	13	9	1			43	36	34	22	24	2			
Gladwin	1		1						1								1
Grand Traverse	44	5	89		2	3			6	12	5	13	3				
Gratiot	138	21	117	12	5	3	1		21	18	24	24	21	5	3	1	
Hillsdale	216	84	182	15	17	2			37	42	47	32	23	1			
Houghton	78	9	69	5	3	1			12	16	24	8	6	2	1		
Huron	87	4	83	2	1	1			14	18	21	16	11	2	1		
Ingham	190	23	167	14	7	2			33	43	39	26	22	3		1	
Ionia	178	25	148	19	6				33	33	32	31	16	2	1		
Iosco	53	5	48	3	1	1			12	11	12	5	8				
Isabella	76	8	68	6	2				12	7	11	14	21	3			
Jackson	206	33	178	19	9	4	1		39	29	45	41	15	4			l
Kalamazoo	119	16	103	7	5	2	1	1	25	28	21	21	7	1			
Kalkaska	22	2	20		1	1			7	2	4	3	3	1			
Kent	306	88	268	24	111	3			68	61	71	41	19	7	1		1
Keweenaw	15	1	14	1					1	3	2	6	1	1			
Lake	11	1	10	1					9	3	1	3	1				
Lapeer	143	19	124	12	5	2			25	30	32	18	15	3	1		
Leelanaw	15	2	13	1		1			4	3	2	2	1	1			
Lenawee	217	40	177	26	9	4	1		38	47	41	33	16	2			
Livingston	76	10	66	5	3	2			16	16	15	12	6	1			
Mackinac	12		12						1	3	5	2	1				
Macomb	135	10	125	7	3				30	35	25	23	13		1		
Manistee	42	4	38	1	3				9	11	8	5	4		1		
Manitou	1		1										1				
Marquette	72	6	66	2	3	1			20	7	13	14	11	1			
Mason	45	1	44	1					12	9	12	3	7		1		
Mecosta	66	5	61	4		1			13	16	14	8	9	1			
Menominee	55	4	51	3	1				15	12	10	7	5	2			-
Midland	29	8	26	2	1				3	7	8	5	1	2			-
Missaukee	8		8						2	1		1	1	2	1		
Monroe	170	24	146	19	5				40	36	35	19	16				
Montcalm	192	26	166	17	5	3		1	25	32	29	40	26	14			

Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1871, pages 1462, 1463, and 1464.

TABLE IX.—CONTINUED.—Persons Married under 21 Years of Age.

		ons Ma er 21 Y		Ag	ES OF	MAL	ES, 1	880.		Λ	GES (of F	EMAL	ES, I	880.		0
COUNTIES.		AGE, I			en.	en.	een.a	n.0		en.	en.	een.	1 4	97	en.a	en.e	6.8
	Total.	Males.	Fe- males.	Twenty.	Nineteen.	Eighteen.	Seventeen.a	Fifteen.a	Twenty.	Nineteen.	Elghteen.	Seventeen.	Sfxteen.	Fifteen.s	Fourteens	Thirteen.s	Twelve.
Muskegon	160	21	139	13	5	1	2		36	30	28	21	18	5		1	
Newaygo	102	9	93	4	5				16	13	23	17	22	2			
Oakland	114	13	101	6	4	3			23	29	28	8	12	1	****		
Oceana	65	4	61	3	1				11	15	12	10	12	1			
Ontonagon	11		11						1	6	2	1	1				
Osceola	60	8	57	2	1				10	11	13	9	12		2		
Otsego	15	1	14	1					1	5	5	2		1			
Ottawa	143	21	122	13	5	2	1		35	23	22	25	16	1			
Presque Isle	5		5	****					1		1	2		1			
Roscommon	1		1									1					
Saginaw	247	27	220	17	8	2			48	43	57	33	30	8	1		
Sanilac	83	8	75	7		1			15	16	18	11	12	3			
Schoolcraft	4		4								2	1		1			
Shiawassee	114	16	98	9	4	2	1		16	20	32	19	10	1			
St. Olair	201	21	180	15	4	2			43	40	51	27	17	2			
St. Joseph	170	23	147	12	8	2	1		24	37	43	33	10				
Tuscola	104	10	94	7	3				15	21	14	17	25	1	1		
Van Buren	156	28	128	18	7	3	****		25	29	36	13	23	2			
Washtenaw	114	21	93	14	3	4			38	22	17	12	3	1		****	
Wayne	600	61	539	41	18	2			166	147	133	66	26	1			
Wexford	21	9	19	1		1			2	6	3	4	4				

a Not legal marriages. For law and penalty to persons solemnizing, see sections (4719), (4720), (4728), and (4729), Compiled Laws of 1671, pages 1462, 1463, and 1464.

MANNER OF UNION BY AGES.

The proportion of males and of females married at each period of age may be conveniently studied in Table X. The column headed "Total Males" shows the number of males married at the different periods of age; and the line "Total Females," at the bottom, shows the number of females married at the different periods of age. The manner of union of the males and females by ages, may be traced as follows: In the column mentioned above it may be seen that 349 males under 20 married females as follows: 274 under 20; 63 aged 20 to 25, 8 aged 25 to 30, 1 aged 30 to 35, 35 to 40, 50 to 55, and unknown age. In like manner each number of males in the column of "Total Males" is distributed throughout the table in the respective columns headed with the ages of the females. In the second line from the bottom it may be be seen that of the 5,021 females who were married under 20 years of age, 274 married males under 20; 2,918 married males 20 to 25, 1,376 married males

25 to 30; 307 married males 30 to 35, etc. The last column in the table shows the proportion of males married at each period of age, and the bottom line shows the proportion of females married at each period of age. The greatest per cent. of both males and females appears for those aged 20 to 25 years, 41.14 per cent. of the males were married at these ages, and 38.96 per cent. of the females.

TABLE X.—Exhibiting the Number of each Sex at each Period of Age who were married in Michigan during the Year 1880; the Number of sach Sex at each Period of Age who were united to the opposite Sex at each Period of Age; and the Per Cent. of Brides and of Bridegrooms at each Period of Age to Total at All Ages.

AGES OF					AGE	s of	FEM	ALES	1886							les.	f. of 86.
MALES, 1880,	Un- der 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	S0 and over,	Unk'n.	Total Males.	Per Cent. Grooms a
Under 20	274	63	8	1	1			1							1	349	2.47
20 to 25	2,918	2,532	293	34	11	6	4								23	5,821	41.14
25 to 30	1,376	1,972	718	122	48	8	2	1							9	4,256	80.08
30 to 35	307	602	352	178	54	14	3	1			1				6	1,518	10.78
35 to 40	99	211	182	157	97	30	13	4		1					1	795	5.62
40 to 45	18	74	86	79	86	72	13	8	2	3					1	442	8.12
45 to 50	15	33	39	50	64	35	38	8	2	1					2	297	2.03
50 to 55	9	10	22	22	29	50	37	18	5	1						203	1.43
55 to 60	2	7	10	15	27	35	21	27	21	6	1				2	174	1.28
60 to 65		2	4	5	11	14	16	23	19	14	5			1		114	.81
65 to 70				9	5	9	9	15	5	10	7					62	.44
70 to 75	1				2	5	4	10	7	8	6	3	1	1	1	49	.85
75 to 80		3				3	3			1	3					13	.09
80 and over.			2					1	1	2	3	1	1			11	.08
Unknown	2	3	2												48	55	.39
Total	5,021	5,512	1,718	665	435	281	163	117	62	47	26	4	2	2	94	14,149	
Per Ct. of Brides at each age.	35.49	38.96	12.14	4.70	3.07	1.99	1.15	.83	.44	.33	.18	.03	.01	,01	.66		100.00

The number of marriages in Michigan during the year 1880, in which there was great disparity of age between the male and female may be seen in Table XI. According to the returns of 1880, the greatest disparity between the respective ages of the bridegroom and bride appears for the couple who were married in Kalamazoo county, the bridegroom being reported as 85 years old, and the bride as 27. Among those cases where the bride was returned as the older, the greatest disparity is returned from Ottawa county, the bridegroom being reported as 32 years, and the bride as 68 years old.

TABLE XI.—Marriages with Great Disparity of Ages Returned as having been Solonnized in Michigan during the

		Вкіркском Осрквт,—1880	DEST,-1880.				BRIDE OLDEST,-1890.	EST,-1890.		
COUNTIES.	Осстратор	BIRTHPLACE.	PLACE.	AGE.	pi	Occupation	Вівти	BIRTHPLACE.	AGE.	ri.
	OF BRIDEGROOM.	Bridegroom.	Bride.	Bride- groom.	Bride.	ог Виприскоом.	Bridegroom.	Bride.	Bride- groom.	Bride.
Alcons	Lumberman	Ireland	Tennessee	35	38					
Allegan		Canada	Canada	23	\$2					
Alpena	rmer	Atlantic Ocean. Canada.	Canada.	8	. \$					
Antrim	Blacksmith	Michigan	Michigan	67	31	Farmer	Wisconsin Canada.	Canada	81	£3
Baraga	Laborer	Canada	Michigan	ತ	2					
Barry	Farmer	Ohio	Michigan	8	ន	Farmer	Germany	Michigan	61	53
Bay	Druggiet	New York	Mlchigan	8	8	Laborer	Sweden	Sweden	ಪ	41
Bonzie.	Farmer	Michigan	Michigan	7.7	23	Farmer	Mass	Indiana	83	33
Berrien	Barber	Ohio	Michigan	\$	ន	Farmer	Sweden	New York	\$	61
Branch	Farmer	Ponnsylvania	Ohio	8	23	Farmer.	New York	Michigan	82	8
Calhoun	Farmer	New York	New York	78	85	Farrier	Canada	New York	\$	23
Cass	Grocer	Pennsylvania Indiana	Indiana	28	33					
Charlevolx	Farmer	Russia	New York	**	18					
Cheboygan	Fisherman	Norway	Canada	3	17				-	
Clare	Merchant	Vermont	England	88	ន					
Clinton	Farmer	Connecticut	Illinois	57	CI	Farmer	Michigan	New York	22	8
Craw ford	Farmer	Michigan	Canada	\$	18				-	
Delta	Carpenter	Canada	Canada	43	8	Saloon-keeper Denmark	Denmark	8weden	98	8
Eaton	Salesman	New York	Michigan	89	8	Fireman	New York	Michigan	8	31
Emmet	Farmer	New York	Canada	6\$	18					-
Genesco	rmer	. Rhode Island Onnada.	Ognada	2	9	Farmer Michigan Michigan	Michigan	Michigan	8	23

Gladwin	Farmer	Ohio	Ohlo	=	8				Ī	
Grand Traverse	Farmer	New Jersoy	Illinois	38	98				:	•
Gratiot	Carpenter	New York	New York	3	11					
Hillsdalo	Farmer	New York	Ohio	ã	ត	Farmer	Olulo	Ohlo	8	\$
I Houghton	Light-house Keeper Canada	Canada	Ireland	ĸ	61	Laborer	Finland	Norwny	33	5
Huron	Carpenter	Pennsylvania . Pennsylvania	Peunsylvania	8	16	Mason	Canada	Canada	88	28
188	Merchant	New York	Michigan	53	ន	Farmer	Michigan	New York	57	8
O Ioula	Laborer	New York	Michigan	3	56	Farmer	Оһіо	New York	31	7
Iorco	Farmer	Michigan	Michigan	ន	ន	Laborer	Germany	Canada	8	45
Isabella	Farmer	Michigan	Unknown	89	11					
Jackson	shoc-maker	Ohlo	New York	37	11					
Kalumazoo	Farmer	Michigan	Michigan	æ	27	Farmer	New York	New York	33	4 8
Kalkaska	Lumberman	Germany	Germany	\$	61					
Kent	Nurseryman	Ohio.	Michigan	47	18	Shoe-maker	Canada	Ireland	12	\$
Keweenaw	Boiler-maker	Ireland	Michigan	‡	23					
Lako						Lumberman	New York	Ohio	នួ	51
Lapeer	Farmer	New York	Michigan	7	5	Farmer	Michigan	Michigan	ec.	3
Leclanaw	Blacksmith	Bohemla	Bohemia	5	98					
Lonawee	Farmer	New York	Scotland	6	7.	Farmer	Germany	Michigan	21	33
Livingston	Lumberman	Canada	Michigan	24	et .					:
Mackinac	Farmer	Michigan	Michigan	43	11					:
Macomb	Farmer	Michigan	Michigan	4	93	Farmer	Michigan	Michigan	88	9
Manistec	. Farmer	Canada	Pennsylvania	23	8	Carpenter	Ohlo	New York	42	23
Marquette	Mason	Canada	Оіно	£	ន	Laborer	Sweden	Sweden	23	\$
Mason	Unknown	New York	Canada	22	ដ	Laborer	Sweden	Sweden	3	19
Mecosts	Mason	Oh10	Michigan	Ş	91					
Midland	Farmer	New York	Michigan	9	5	Farmer	Michigan	New York	88	\$

TABLE XI.—Continued.—Marriages with great Disparity of Ages.

		Bridegroom Oldest,-1890	DEST,-1880.				BRIDE OLDEST,-1880	EST,-1880.		
COUNTIES.	Occupation	BIRTHPLACE	PLACE.	AGE.	ų	OCOUPATION	Вівти	BIRTUPLACE.	AOE.	pi
	OF BRIDEGROOM,	Bridegroom.	Brido.	Bride- groom.	Bride.	OF BRIDEGROOM.	Bridegroom.	Bride.	Bride- groom.	Brido.
Missaukee						Laborer	Canada	Indiana	83	97
Monroe	Paper.maker	Massachusetts. Vermont.	Vermont	22	L ‡	Harness-maker. Ohlo.	Ohio	New York	3	8
Montcalm	Unknown	Denmark	Denmark	3	ន	Mason	Canada	Virginia	3	8
Muskegon	Laborer	Sweden	Sweden	3	8	Laborer	Canada	Michigan	23	23
Newaygo	"Wood-maker"	New York	Michigan	67	11	Farmer	Missouri	Michigan	83	88
Oakland	Farmer	New Jersey	Michigan	=	21	Farmer	Michigan	New York	23	8
Oceana	Farmer	Michigan	Michigan	97	11	Mason	Canada	New York	ន	*
Овешам	Farmer	New York	Unknown	7	ន	Farmer	Canada	New York	97	8
OsceolaCa	rpenter	New York	Indiana	3	22	Laborer	Sweden	Sweden	*	\$
Ottawa	rmer	Ohlo	Netherlands	8	2	Lumberman	Netherlands.	Netherlands. Notherlands	82	8
Saginaw	ngineer	New Hampshire Michigan	Michigan	22	22	Miller	Bavaria	Germany	35	7
Sanilac	otel-keeper	New York	Ontario	3	ន	Laborer	Michigan	Pennsylvania.	88	37
Shia wassec	Farmer	New York	California	87	8	Farmer	New York	Michigan	ន	\$
St. Clair	Unknown.	Ontarlo	Ontario	25	81	Unknown	England	Ontarlo.	æ	\$
St. Joseph	Builder	New York	Michigan	84	ន	Morchant	England	Ohio	8	17
Tuscola	Farmer	New York	New York	3	75	Farmer	Ontarlo	New York	8	8
Van Buren	Farmer	Ohio	Indiana	3	2					
Washtenaw	Farmer	Virginia	Canada	23	8	Laborer	New York	Canada	88	2
Wayne	Workman	Germany	Germany	7.	11	Farmer	England	Maine	75	\$
Wexford Shoe maker.		Norway	Pennsylvania	3	2	Laborer	Vermont Canada	Canada	8	\$

EXHIBIT D .- Number of Inhabitants to One Marriage, as stated for Different Foreign Countries, the United States, and some of the States of the Union. The Statements for Michigan include only the Inhabitants of Counties Represented by Returns of Marriages.

COUNTRY, STATE, OR CITY.	Year for which the State- ment is made.	Inhabit to or Marri Annus	age	COUNTRY, STATE, OR	Year for which the State- ment is made.	Inhabitants to one Marriage Annually.
Austria		117	1	Massachusettsb	1871	95
Bavaria		160		Massachusetts	1672	95
Belgium		122		Massachusettsb	1873	96
Denmark		129	a.	Massachusettsb	1874	103
England		122	1869	Massachusettsb	1875	121
Finland		141	for	Massachusettsb	1876	129
France		122		Massachusettsb	1877	130
Greece		174	Minnesots	Massachusettsb	1878	129
Holland		129	ij	Massachusettsb	1879	124
Norway		124	Jo	Massachusettsb	1890	114
Prussia		106	Statistics	New Jersey	1870	135
Russia		111	stis	New York Cityd	1870	118
Saxony		107	38,	Michiganef	1872	117
Spain		141	from '	Michiganef	1878	110
Sweden		135	fro	Michiganef	1874	110
United States	1860	122	ken	Michigan	1874	109
New York	1860	135	T.	Michiganef	1875	117
Ohlo		105		Michiganef	1976	121
Minnesota	1860	110		Michiganef	1877	125
Minnesots	1868	107)	Michigan	1878	120
Minnesota	1870	116		Michiganef	1879	115
Massachusettsb	1870	99		Michigan	1880	116

Taken from Statistics of Minnesota for 1870.
 Taken from Registration Report of Massachusetts for 1880, page 21.
 There were is Townships from which no returns of marriages were received. Computed from data in Registration Report of New Jersey for 1870.
 Computed from data in Report of Metropolitan Board of Health for 1870.
 Marriages corrected, for additional returns, up to May 11, 1882.
 Population estimated from Censuses of 1870 and 1880.

TABLE XII.—Exhibiting, for the State and Counties, the Number of Marriages in Michigan during each of the Years 1874 to 1880, inclusive, Returned previous to May 11, 1882; for the Years 1877, 1878, and 1879, the Number as first

ţ

						MAR	ABRIAGE						,		Number	Per
STATE	1874.	1875.	1876.		1877.			1878.			1879.		1550.	Popula- tion, 1830,	Inhabit.	Cent. of Mar-
COUNTIES.	Number Re- turned previ- ous to May 11, 1842.	Number Re- turned prevt- ous to May 11, 1852.	Number Re- turned previ- ous to May 11, 1832.	Number ns first Re- turned and Com-	Number Re- turned since first Compl- lation.	Number Re- turned previ- ous to May 11, 1882.	Number Number as for Re- furned since and fret Com- plied. fation.	Number Re- turned since first Compl- lation.	Number Re- turned previ- ous to May 11,		Number Number as Re- first Re- turned since turned first Com- Com- compi-	Number Re- turned previ. ous to May 11, 1882,	Number Re. turned.	Represented by Marriages in 1850.		riages in 1880 to Popu- lation in 1880.
STATE	12,264	11,851	11,879	11,009	818	11,827	19,221	565	12,786	13,225	516	13,741	14,149	1,636,889	116	8.
Alcena	10	E	9	6		G	9		9	13		19	12	8, 107	528	8.
Allegan	279	Ş	308	500	7	273	275	61	287	315	60	323	808	37,815	106	26.
Alpena	62	2.7	\$	4	61	7	35	н	23	28	21	33	99	8,789	971	8
Antrim	ន	13	Ħ	63	i	83	8	C4	ಕ	\$	-	97	88	5,237	134	7.
Baraga		2	=	-	i	7	~		7	G		0	13	1,804	139	ř
Barry	179	190	202	910	*	214	212	01	914	9%	က	240	232	25,317	100	.93
Bay	213	203	190	130	76	174	346	=	237	129	. 7	166	217	38,081	175	.57
Bonzie	11	38	33	61		55	5		13	ន		31	33	3,433	101	8.
Berrien	426	830	489	336	7.	370	433	==	433	98	7	200	458	36,785	3	1.25
Branch	315	306	286	273	13	256	310	9	316	311	9	317	584	27,941	86	1.02
Calhoun	829	818	83	8	ø	203	83	약	833	330	2	337	324	38,452	109	.92
Cass	213	195	217	175	•	181	202	=	213	233	80	233	230	22,009	100	8.
Charlevoix	ន	21	22	8		31	53	83	23	75	G1	86	R	5,115	202	9
Cheboygan	- 8	_ 2 _	ន	- 53		45	\$	8	43	7		63	28	6,524	117	86

Ohippowa	*	2		ន	Ī	8	21	Ī	21	10	Ī	61	8	6,248	- 8	æ,
Olare	9	2	-	22	:	22	9	-	92	23	Ī	22	8	4,187	107	8.
Clinton	902	198	202	2	*	187	88	61	83	ş		3	244	28,100	115	78.
Craw ford					-	İ		i		94		61	22	1,159	8	1.12
Dolta	38	61	27	3		3	5		43	8		8	8	6,812	300	1.00
Eaton	33	175	274	192	=	86 86	992	80	274	27.5	ю	88	98	31,235	117	S.
Emmet	ន	7	22	a	•	೫	3		5	33	64	\$	19	0,630	130	11.
Genesce	318	345	25	880	ĕī	3 9	381	e	ĝ	366	ន	88	1 88	39,220	117	S.
Glad win	-	G1		7		•	4		•	63	-	#	•	1,127	283	S.
Grand Traverse	\$	8	83	;	7	3	62	1	25	11	•	8	22	8,4.32	115	.87
Gratiot	104	142	118	126	=	137	23	c	180	177	64	27	161	21,936	115	78.
Hillsdale	450	385	379	a B	80	120	37.1	ដ	308	8	go.	88	300	32,723	2	1.21
Houghton	136	85	159	×	20	158	130	*0	104	170		170	<u>8</u>	22,473	ä	5.
Ruron	28	113	81	300	-	8	55		8	138	7	149	134	80,0%	149	.67
Ingham	283	346	ន	287	98	313	305	9	8	326	n	320	ឌ	33,676	103	86.
lonia	273	273	280	នី	=	797	276	ន	នី	330	-	346	318	\$3,872	107	76.
Ioaco	23	21	17	સ	-	Ş	97	i	9	\$		8	8	6,873	86	1.25
Isabella	8	22	8	9	;	Q	8	i	20	2	-	=	ž	12,159	ž	11.
Isle Royal	i		:		i								Ī		İ	
Jackson	879	387	364	305	19	4 00	88	=	363	98	ю	889	320	42,031	117	2.
Kalamazoo	319	312	278	949	*	33	303	8	333	ş	62	8	265	34,862	130	.13
Kalkaska	a ,	2	11	16		90	8		8	36		92	S	2,937	\$	1.19
Kent	653	533	019	517	ĸ	93	679	=	083	632	6	#	819	73,263	119	18:
Кечеопа ч	3	22	9	8	64	22	8	i	88	7		1	65	4,270	158	3.
Lake	*	*	21	22		22	92		92	2		캻	95	8,233	202	9.
Lapoer	198	197	197	191	Ŧ	28	XI 84	••	123	26	-	229	247	80,138	251	8.

. No returns of marriages from county clerk.

TABLE XII.—Continued.—Marriages Corrected by Counties.

						XYX	ARRIAGES.								Number	Per
	1874.	1875.	1876.		1877.			1878.			1879.		1860.	Popula- tion, 1880,	of Inhabit.	Cent. of Mar-
COUNTIES.	Number Re- turned previ- ous to May 11,	Number Re- turned previ- ous to May 11,	Number Re- turned previ- ous to May 11,	Number Number Re. as Re. draft Bo- previ. turned ous to and May 11, Com. 1882, piled.	Number Re- turned since first Compi- lation.	Number Re- turned previ ous to May 11, 1882.	Number as first Ro- turned and Com- piled.	Number Re- turned since frat Compi-	Number Re- turned previ- ous to May 11,	Number as first Re- turned and Com- plied.	Number Re- turned since frat Compl- lation.	Number Re- turned previ- ous to May 11, 1852.	Number Re- turned.	Repre- sented by Marriages in 1890.	ants in 1880 to one Mar- riage in 1880.	riages in 1880 to Popu- lation in 1830.
Locianaw	9#	8	æ	94		46	27		27	ន	64	æ	88	6,233	223	£.
Lenawee	192	435	2	401	88	ŝ	8	8	191	435	\$	67	438	48,343	Ξ	8.
Livingston	153	157	145	156	61	25	33	7	130	346	=	91	151	18,81	117	8.
Mackinac	82	13	=	11		11	83		ş	8 2		25	a	2,902	136	8
Macomb	253	808	8	228	-	8 2	83	7	240	873	-	83	25 25 25 25 25 25 25 25 25 25 25 25 25 2	31,627	126	2 .
Manisteo	8	12	92	57	m	8	22	80	8	22	-	8	101	12,532	žį.	.81
Manitou	8 0			9		•	=		=	•	-	10	7	1,384	161	.62
Marquette	215	140	8	109	92	119	88	18	117	120	2	330	157	25,394	163	.62
Mason	87	22	8	8		23	7		12	88	-	84	107	10,065	ਫ਼ੋ	1.08
Mecosta	28	82	8	88	6	87	105		102	103	•	107	125	13,973	11	88.
Menominee	9	83	83	83		65	8	F	98	23		83	120	11,987	80	1.00
Widland	ន	23	23	37	•	7	ž	-	24	£	ю.	8	8	6,803	38	73
Missaukee	61	10	**	-		7	9		•	64	64	7	13	1,553	119	18:
Monroe	810	808	311	828	•	838	306	25	330	366	7	980	314	33,624	101	8.
Montcalm	194	303	702	172	27	214	823	10	883	797	15	256	98 8	33,148	116	.87
Muskegon	166	157	171	138	8	147	191	•	166	203	83	182	230	26,586	83	1.09
Newaygo	88	22	82	87	91	26	92	=	87	8 8	69	106	132	14,688	Ξ	8,
Oskland	801	848	77	314	8	22	2	<u>s</u>	22	Ž	%	2	96	41,537	345	8.

000ana	6	8	8	E		2	2		2	*		8	1111	11,660	205	S,
Ogemaw			•	•	-	9	80		=0		•	•	•	1,914	819	.81
Ontonagon	91	27	2	13		2	9	-	=	٥		0	×	2,565	183	zi
Osceols	48	37	27	11	64	2	22	_	25	ž		ă	111	10,777	28	1.00
Oscods														467		
Otaego		•	13	-	•	10	7	-	80	1	61	0	23	1,974	8	1.17
Ottawa	340	240	345	241		241	216	40	22	214	6	253	970	33,126	ZI.	8.
Presque Isle	92	93	•				•		•	•	80	13	6	3,113	316	8
Roscommon		•		64	:	64	**	-	•	17	:	11	2	1,430	146	3
Baginaw	413	883	391	33	•	98	37.1	81	99	450	33	487	485	360'09	122	終
Sanilac.	107	133	118	133		83	162	-	153	147	п	148	121	26,341	212	8 †
Schoolcraft	9	•	10	2	i	9	æ		a	7		~	7	1,575	8	7.
Shia wasseo	88	167	186	183	13	961	163	۵	174	154	6	163	905	27,039	133	12.
St. Clair	430	350	818	819	=	83	81	81	321	788	GI .	488	878	46,197	123	.83
St. Joseph	300	908	303	818	ន	38	314	ıı	325	772	2	286	333	20,628	ç; 80	1.28
Tuecola	130	121	147	160	61	162	189	61	101	919	ø	215	195	25,738	132	92.
Van Buren	281	228	243	237	1	544	888	16	2	316	9	923	75%	30,807	117	8.
Washtonaw	808	275	276	8	61	293	388	2	276	813	*	333	323	41,848	130	11:
Wayne	1,137	608	1,033	850	98	99	1,040	84	1,136	1,308	18	1,324	1,539	106,444	104	8
Wexford	24	೫	19	43		43	97		97	63	1	29	3.	6,915	651	£.

DEATHS, 1880.

The registration of deaths in Michigan affords a means of judging of the health of the State. More attentive study has always been given to this department of vital statistics than to the other branches of the work, because of its great importance, and the fact that mortality is felt more keenly and touches society and our homes in a manner different from anything else. Hence, it can readily be seen how important it is to have these statistics of deaths obtained as accurately, faithfully, and intelligently as possible. Every person whose duty it is to make these returns should perform the work in a conscientious manner, with a realizing sense of its true value. Every error in the record of the facts vitiates by just so much the value of the entire work, and a correct compilation cannot compensate for the mistakes in the facts themselves. It has ever been the aim of the compiler to show the true value and importance of these statistics, and to educate the people, and especially the supervisors and assessors who collect them, to an appreciation of their worth. It is earnestly hoped that important modifications in the registration law will soon be made, and that some practical remedy will be found which will greatly improve the statistics of births and deaths.

The total number of deaths recorded by the registration returns for the year 1880 was 16,102, a number more by 1,695 than returned for the previous year, and a larger number than has ever been returned to the State Department. This increased mortality represents either an unhealthy condition of the public health in Michigan in 1880, or that fewer omissions were made in the enumeration of deaths. Both of these causes undoubtly had some influence upon the larger returns. Another fact must not be forgotten, that our people were exposed to the inroads of the fatal infectious diseases, scarlet fever and diphtheria, which have held such destructive sway for the past few years. The greater number of deaths in 1880 has been returned for nearly all ages, but to the greatest extent among children under five years of age.

The average number of deaths for certain specified periods of time, as returned and as corrected for omissions, the number in unknown month included, is as follows:

PERIODS OF TIME.	Deaths as Returned.	Corrected as per Exhibit C, 4th line.
Per quarter	4,025.50	6,564.00
Per month	1,841.83	2,188.00
Per week	80P.65	504.92
Per day	43,99	71.74

In the following tabular exhibit the number of the inhabitants includes

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those townships from which returns of deaths were received, and those in which no deaths occurred, but those townships which made no report were excluded. The death-rate in Michigan in 1880, when the deaths as returned are considered, was about ten deaths to each thousand of the living, but when the number of deaths as corrected for omissions is used, the rate is sixteen deaths to a thousand of the inhabitants. It may be remarked that the death-rate of 1880 shows a decided increase when compared with those of previous years.

	Inhabitants	B	Deaths Corrected		OF DEATHS BITANTS.
	in 1880 Represented by Deaths in 1880.	Deaths as Returned.	for Omissions in Enumer- ating.	Deaths as Returned.	Deaths Corrected for Omissions.
Total	1,624,040	16,102	26,256	.99	1.62

Proceeding, as has been the custom in previous reports, the consideration of Table I. comes next in order; this table shows the number and per cent. of deaths by quarters of the year, when the deaths are compiled as returned, and when corrected for omissions. It demonstrates the influence of the seasons upon mortality in Michigan in 1880. As has been the showing in preceding years, the third quarter, or midsummer season, was the most fatal period.

TABLE I.—Deaths in Michigan by Quarters of the Year, Exhibiting the Number and Per Cent. of Total as Returned for each of the Years 1875 to 1880, inclusive.

	TALS, AND SONTHS	187	5.	187	6.	187	7.	187	8.	187	9.	188) .
	TH WHICH JARTERS END.	Num- ber.	Per Ct. of Total,	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total,	Num- ber.	Per Ct. of Total,	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total
T	otals	11,990	100.00	12,576	100.00	12,919	100.00	12,766	100.00	14,407	100.00	16, 102	100.00
	March	2,679	22.34	2,460	19,56	2,509	20.12	2,449	19, 18	3,009	20.89	3,011	18.70
ě	June	2,878	23,63	2,803	22.29	2,829	21.90	2,822	22, 10	3,159	21.93	3,491	21.68
As Returned.	Sept,	3,334	27.81	4,009	31.88	3,999	80.95	8,731	29,23	4,123	28.62	4,983	30.95
	Dec	8,073	25.62	3,273	26.02	8,436	26.60	8,740	29.30	4,075	28,28	4,574	28.40
	Unknown	71	.59	31	.25	56	.43	24	.19	41	.28	48	.27
Ave	rage	2,997.50	25.00	8,144.00	25.00	3,249.75	25.00	3,191.50	25,00	3,601.75	25.00	4,025.50	25.00
Tot	als	17,259	100.00	18,369	1 00.0 u	14,841	100,00	18,566	100,00	20,583	100.00	24,256	100.00
Į.	[March	4,409	23.50	4,153	22.58	4,227	23,05	4,217	22.35	4,933	23.97	5,877	22.88
ed f	June	4,815	24.96	4,364	23.73	4,259	23.22	4,468	23.68	4,793	23.25	6, 183	23.55
Corrected for Confesions.	Sept	4,621	26.73	5,661	80.78	5,495	29,96	5,340	28.30	5,703	27.71	7,837	29,85
90	Dec	3,873	22,40	4,180	22.73	4,304	23.47	4,817	25.53	5,113	24.84	6,316	24.06
4	Unk	71	.41	31	.17	56	.30	51	.13	41	.20	43	.16
ĀVē	rage	4,822	25.00	4,597	25.0	4,583	25,00	4,717	25.00	5,1 16	25 00	2,188	25,00

[.] Including deaths in unknown month.

TABLE II.—Deaths Returned as having occurred in Michigan, by Months, Exhibiting the Number and Per Cent. of Total for each of the Years 1877, 1876, 1878, 1879, and 1880, the months arranged in order by Number of Deaths, those having the Greatest Number first.

<u> </u>	. نه ا		1 10	_		<u>~</u>	<u> </u>	_	_			-				
	Per Ct of Total.	100.00	11.05	10.41	10.04	9.43	9.33	9.14	8.01	7.94	7.14	6.43	6.22	5.34	.27	8.33
1880.	Num- ber.	16, 102	1,780	1,676	1,617	1,527	1,486	1,471	1,280	1,166	1,149	1,036	1,002	698	3	1,841.41
	Year and Months.	Year	Λ ug	Sept	Ùec	July	Nor	Oct	April	May	Mar	June	Feb	Jan	Unk	Αν
	Per Ct. of Total.	100.00	10.67	10.56	9.74	8.93	8.50	8.21	8.15	7.78	7.53	6.88	6.27	6.26	88.	R.33
1879.	Num- ber.	14,407	1,537	1,521	1,403	1,286	1,268	1,183	1,174	1,114	1,083	885	803	805	7	1,200.58
	Year and Months.	Year	Aug	Dec	Sept	Oet	Nov	July	April	Mar	May	Feb	Jan	June	Unk	Αν
	Per Ct. of Total.	100.00	10.74	10.72	10.52	9.32	9.32	8.06	7.97	7.28	7.23	6.R	6.18	5.73	61.	8.8 8.8
1878.	Num- ber,	12,766	1,871	1,369	1,343	1,190	1,181	1,029	1,017	930	20	870	789	730	75	1,063.83
	Year and Months.	Year	Aug	Dec	Sept	Oct	Nov	April	July	Mar	May	June	Feb	Jan	Unk	AV
	Per Ct. of Total.	100.00	12.07	10.84	9.45	8.94	8.30	8.05	7.66	7.57	7.55	6.77	6.53	5.93	3.	8.83
1877.	Num- ber.	12,919	1,559	1,400	1,23	1,155	1,060	1,040	066	978	976	875	843	166	28	1,076.58
	Year and Months.	Year	Aug	Sept	Oct	Dec	Nov	July	Mar	April	May	June	Feb	Jan	Unk	Αν
	Per Ct. of Total.	100.00	11.98	11.32	9.17	8.99	8.58	7.96	7.78	7.75	17.1	6.8)	6.38	5.45	ä	8.8
1876.	Num- ber.	12,578	1,507	1,423	1,153	1,131	1,079	888	978	975	970	855	98	283	8	1,048.00
	Year and Months.	Year	Aug	Sept	Dec	Oct	July	Nov	April	Mar	May	Jane	6.74 Feb	Jan	Unk	AV
	Per Ct. of Total.	100.00	10.19	10.17	9.01	8.88	8.73	8.52	8.87	7.74	7.40	7.45	6.74	6.14	35.	35. 35.
1875.	Num- ber.	11,990	1,222	1,219	1,080	1,065	1,945	1,022	1,003	XI.	88	808	808	736	11	999.17
	Year and Months.	Year	Aug	Sept	Oct	Dec	Mar	Мау	April	Nov	Feb	July	June	Jan	Unk	Αν
i i		ово	-	01	100	4	10	•	1	-	a	9	=	15		

Table II. shows the order of mortality for 1880 by months, those having the greatest number first. With the exceptions of the years 1878 and 1879, the months of August and September are the first two months in the table for each of the years 1868-1880. Six months of the year show more than the average number of deaths, while in 1879 only five mouths have more than the average.

The deaths of males exceeded the deaths of females in 1880 by 1,235. As shown by Table III. there were 8,645 deaths of males returned, and 7,410 deaths of females, the proportion being 117 males to 100 females. An excess of deaths of males occurs in each month of the year. According to the United States census of 1880, the excess of males over females in Michigan was 87,773; there being 854,618 males, and 769,422 females represented by the returns of deaths. Measuring the mortality of each sex by the proportion of deaths to the number of living, it is seen that the death-rate in 1880 among males was 10 per one thousand, and among the females 9.62 per one thousand, inhabitants. It will thus be seen that there is little difference in the death-rate of the two sexes.

TABLE III.—Number and Per Cent. of Deaths of Males and of Females in Michigan in 1880, from all Causes, as Returned, by Months. (Unknown sex excluded.)

	AS RET	THS UENED, 50.	PER CER		CH SEX 1 I SEXES.	O TOTAL	Males
YEAR AND MONTHS, 1880.	Males.	Fe-	Males.	Fe-		OF THE	to 100 Fe- males.
				In unica.	Males.	Females.	
YEAR 1880	8,645	7,410	83.85	48.15	7.70		117
January	451	407	52.56	47.44	5.12		111
February	556	442	55.71	44.29	11.42		126
March	604	545	52.57	47.43	5.14		111
April	683	601	53.19	46.51	6.38		314
May	619	545	53.18	46.82	6.36		314
June	553	479	53,59	46.41	7.18		115
July	836	688	54.86	45.14	9.72		122
August	939	834	52.96	47.04	5 92		113
September	907	764	54.28	45.72	8.56		119
Oçtober	795	671	54.23	45,77	8.46		118
November	822	661	55.43	44.57	10.86		124
December	852	758	52,92	47.08	5.84		112
Unknown	28	15	65.12	34.88	30.24		187

Exhibit A contains data concerning the proportion of deaths in each month of the year 1880 and the per cent. of the sexes, when the months are equalized to 30.44 each, making them all of equal length. The largest proportion of deaths is shown for the mouth of August, and the smallest for the month of January.

EXHIBIT A.—By Sex, the Number of Deaths Returned as having occurred in Michigan during the Year 1880, by Months Equalized to 30.44 days each;—Number of Deaths in each Month; Per Cent. of Deaths in each Month to Total Deaths during the Year; and Per Cent. and Excess of Per Cent. of Deaths of each Sex to Total of both Sexes.

YEAR			Death etueni ized.			T. OF DITH TO THE	DTAL DU		TOTA	L OF I	BACH S SOTH SI (SEX)	EXES,
MONTHS, 1880.			Fe-	Unk.	Total.	Males.	Fe-	Unk.	Males.	Fe-	Exc	E88.
	Total.	Males.	males.	Unk.	Total.	218168.	males.	Cnk.	SIRIES.	mules.	Males.	Te- males.
YEAR 1880	16,06 2	8,626	7,359	47	100.00	100.00	100.00	100,00	53.86	46.14	7.72	
January	845	443	400	2	5,26	5.14	5.41	4.26	52.55	47.45	5.10	
February	1,032	584	464	4	6,55	6.77	6.28	8.51	55.73	44.27	11.48	
March	1,128	593	535		7.02	6.87	7.24		52.57	47.43	5.14	
April	1,308	603	610	5	8,14	8.03	8.26	10.64	53, 18	46.82	6.36	
May	1,145	608	535	2	7.13	7.05	7.24	4.26	53.19	46.81	6.38	
June	1,051	561	496	4	6.54	6,50	6.53	8.51	53.58	46.42	7.16	
July	1,500	821	676	3	9.34	9.52	9.15	6.38	54.84	45.16	9.68	
August	1,748	022	819	7	10.88	10,69	11.08	14.89	52.96	47.04	5.92	
September.	1,701	921	775	5	10.59	10.68	10.49	10.64	54.30	45.70	8 60	j
October	1,445	781	659	5	9.00	9.05	8,92	10,64	54.24	45.76	8,48	
November_	1,508	834	671	8	9.39	9.67	9.08	€.38	55.42	44.58	10.84	
December.	1,588	837	744	7	9,89	9.70	10.07	14.89	52.94	47.06	5.88	
Unknown	43	28	15		.27	.33	.20		65.12	84.88	30.24	
Average	1,335	717	614	4	8.83	8.33	8.33	8,33				

 ^{40—19} males and 21 females—lost in equalization.
 Unknown month excluded.

An opportunity is given in Exhibit B of comparing the relative standing of the different months with reference to their record of deaths, beginning with the highest, in Massachusetts, Rhode Island, and Michigan.

EXHIBIT B.—Months arranged in Order by Number of Deaths.—those having the greatest Number first,—in Michigan for each of the Years 1877 to 1880, inclusive, as per Registration Returns, and for each of the Years 1878, 1879, and 1880, Corrected for Omissions in Enumerating; in Massachusetts for each of the Years 1878, 1879, and 1880; also, in Rhode Island for each of the Years 1878, 1879, and 1880.

ORDER.	187	IGAN, A	RETU	ENS,	RECTI SIONS TION,	HGAN, ED FOR IN ENU INCLU	OMIS- MERA- DING	13	ACHUS CLUDI	NG	E	DE I EL CLUDI LL-BIR	NG
	1877.	1978.	1879.	1880.	1878.	1879.	1880.	1878.	1879.	1880.	1878.	1879.	1880.
1	Aug.	Λug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Jan.	Aug.	Dec.	Jan.	July.
2	Sept.	Dec.	Dec.	Sept.	Sept.	Sept.	Sept.	July.	Aug.	July	Aug.	Aug.	Aug.
8	Oct.	Sept.	Sept.	Dec.	Dec.	Dec.	July.	Dec.	Mar.	Sept.	July.	Dec.	Mar.
4	Dec.	Oct.	Oct.	July.	Apr.	Apr.	Apr.	Oct.	Apr.	Dec.	Jan.	Oct.	Jan.
5	Nov.	Nov.	Nov.	Nov.	Oct.	Mar.	Mar.	Sept.	July.	Mar.	Mar.	Nov.	Oct.
6	July.	Apr.	July.	Oct.	Mar.	July.	Dec.	Jan.	Feb.	April	Nov.	July.	Apr.
7	Mar.	July.	Apr.	Apr.	Nov.	Oct.	Oct.	Mar.	Dec.	Oct.	Feb.	Mar.	May.
8	Apr.	Mar.	Mar.	May.	July.	Мау.	May.	Nov.	May.	May.	Apr.	Apr.	Sept.
9	May.	May.	May.	Mar.	May.	Feb.	Nov.	Apr.	Sept.	Nov.	Sept.	Sept.	Dec.
10	J'ne.	J'ne.	Feb.	J'ne.	Feb.	Nov.	Feb.	May.	Oct.	Jan.	Oct.	Feb.	Feb.
11	Feb.	Feb.	Jan.	Feb.	J'ne.	Jan.	J'ne.	Feb.	Nov.	Feb.	J'ne.	May.	Nov.
12	Jan.	Jan.	J'ne.	Jan.	Jan.	J'nc.	Jan.	J'ne.	J'ne.	J'ne.	May.	J'ne.	J'ne.

OMISSIONS IN THE ENUMERATION OF DEATHS.

The usual method of correction for omissions in the enumeration of deaths is applied to the number of deaths returned in each month of the year 1880. The number of deaths that probably occurred in this State, as shown by the correction, is 26,256, which has been seen in Table I. on page 105. According to the system of correction, the average per cent. to be added to the deaths as returned to make them equal the estimated number above is 63.06. The per cent. to be added differs with each month, being more or less as the time between the deaths and their enumeration by the supervisors is longer or shorter. The manner of estimating these different per cents, as seen in the second line of Exhibit C, has been fully explained in preceding Reports and need not be repeated here. The last line of Exhibit C represents the deaths, in months of equal length, as they are corrected and equalized to population at the close of the year. For further details concerning the method of correcting the deaths see Exhibit E and Diagram No. 3.

same Equalized for Increase of Population during the Year covered by the Returns, and the Deaths as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also, indicating some of the slops by which these results have been reached. EXHIBIT C.—Deaths in Michigan during the Year 1880, as Returned, as Corrected for Omissions in Enumerating, the

						7	MONTHS, 1880	3, 1880.					
	TOTALA	Jan.	Feb.	Mar.	April	May.	June. July.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers. Per cent. of deaths to be added for correction for time elapsing before enumeration.	16,059	860	1,002	1,149	1,289	1,166	1,036	1,527	1,780	1,676	1,471	1,486	1,617
Number of deaths to be added for above correction	10, 154	879	8	1,027	1,070	ž	728	973	1,083	2	687	679	919
Deaths, if enumerated in months of occurrence	26,213	1,739	1,962	2,176	2,339	2,060	1,764	2,502	2,803	2,532	2,128	2,055	2,133
Per cent. of deaths to be added to equalize them to population at close of year	Jo 98	4.21	3.86	3.61	8 16	2.81	2.48	1.2	1.78	7.	8.	7.	8
Deaths to be added to equalize them to population at close of year	284	55	92	92	55	E	3	23	9	×	ន	15	7
Deaths, as corrected, equalized to population at close of year	28,707	1,812	2,088	2,252	2,434	2,118	1,807	2,655	2,852	2,563	2,151	2,070	2,140
Days and hundred the by which the months should be increased or diminished to equalize them to months of uniform length. Number by which the deaths should be increased or diminished to equalize them to months of uniform length	9 <u>6</u>	66 + 1.44 -33 + 101	+ 1.4	28 7	+ 44 + 36 + 36	25. 88	+.4	85 °F	8 5	+ . 4 4 4 4 8 8 4 4 8 8	2 8	÷ ÷	1 2 8 8 8
Deaths, corrected and equalized, equalized to months of uniform length	28,741	1,779	2,139	2,211	2,470	2,080	1,834	2,500	2,800	2,800 2,606	2,112	2,100	2,101

. Excluding 43 in unknown month.

Exhibit D is similar in plan to Table II. on a previous page, only the deaths have been corrected for omissions in the latter. It will be observed that the order of the months is not the same as in Table II.

EXHIBIT D.—Deaths during the Years 1877 to 1880, inclusive, as Corrected for Omissions in the Enumeration, Exhibiting the Number and Per Cent. of Total, by Months arranged in Order by Number, Months having the greatest number first.

		1977.			1878.			1879.			1880.	
DER.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.
0.8	Total	18,341	100,00	Total	18,866	100.00	Total	20,583	100.00	Total	26,256	100.00
1	Aug	2,148	11.71	Aug	1,968	10.43	Aug	2,129	10.84	Aug	2,808	10.68
2	Sept	1,870	10.20	Sept	1,863	9.87	Sept	1,884	9,15	Sept	2,532	9,64
8	Oct	1,580	8,61	Dec	1,700	9.01	Dec	1,847	8,97	July	2,502	9.53
4	Mar	1,572	8.57	Apr	1,676	8.88	Apr	1,827	8.88	Арт	2,359	8.93
5	Apr	1,512	8.24	Oct	1,593	8.44	Mar	1,782	8,66	Mar	2,176	8,29
6	July	1,477	8.05	Маг	1,560	8.27	July	1,690	8.21	Dec	2,133	8, 12
7	May	1,468	8.00	Nov	1,524	8.08	Oct	1,672	8.12	Oct	2,128	8,10
8	Dec	1,397	7.62	July	1,509	8,00	May	1,639	7,96	May	2,060	7.85
9	Feb	1,874	7.49	Мау	1,459	7.73	Feb	1,629	7.92	Nov	2,055	7,23
10	Nov	1,327	7.24	Feb.	1,362	7,22	Nov	1,594	7.74	Feb	1,962	7.47
11	Jan	1,281	6,98	June	1,333	7.07	Jan.	1,522	7.40	June	1,764	6,72
12	June	1,279	6.97	Jan	1,295	6,86	June	1,327	6.45	Jan	1,789	6.62
	Unk	56	.31	Unk	24	.13	Unk	41	.20	Unk	48	.16
	Ava	1,528	8.83	Av	1,572	8.33	Av	1,715	8.33	Δ٣α	2,188	8.38

[·] Including deaths in unknown month.

Diagram No. 3.

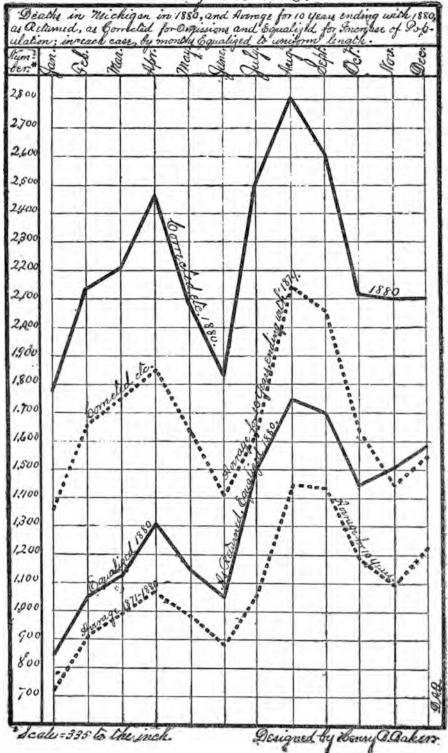


EXHIBIT E.—Deaths in Michigan during the Year 1880, as Returned, as Corrected for Omissions in Enumerating, and as thus Corrected, Equalized to Months of uniform length of 30.44 days each.

					7	ONTH	Моитив, 1880.					
15	TOTAL.	Jan. Feb. Mar. April. May. June. July. Aug. Scpt. Oct. Nov. Dec.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
So Deaths as returned by Registration Officers. 16,039 Per cent, of deaths to be added for correction for time elapsing before enumeration.	2	800 1,002 2.19 95.80	1,149		1,239 1,166	1,036 1,527 70.24 63.85	1,527	1,730 1,676 1,471 57.46 51.07 41.68	1,676	1,471	1,486	1,617
Number of deaths to be added for above correction	10,154	879 960	1,027	1,070	8	228	975	975 1,023	33.0	657	632	916
Deaths, if enumerated in month of occurrence	26,213 1,739 1,962 2,176 2,339 2,060 1,764 2,502 2,803 2,532 2,128	1,96%	2,178	2,339	2,060	1,764	2,502	2,803	2,533	2,128	2,065	2,133
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length. Number by which the deaths should be increased or diminished to equalize them to months of uniform longth.		56 +1.4456 +.4456 +.445656 +.445656 +.445656 +.4458	95 F	+.+ \$8.	- 58 - 37	+ .44	1 i	5 5	+.44		+ + 8 4. 8	\$. E
Doaths, corrected and equalized to months of uniform length	26,158 1,708 2,009 2,137 2,394 3,023 1,790 2,457 2,752 2,569 2,090 2,035	390'5	2,137	2,394	2,023	1,790	2,457	2,752	2,569	2,090	2,085	2,004

· Excluding 43 in unknown month.

more than a fifth (24.66 per cent.) of all the persons who died in 1880 had not reached one year of age, and more than a females are shown in Table IV. From the age of 15 up to 40 the number of deaths of females in the State is greater than that of males; while the opposite fact is true in the early years of life, being most marked in infancy. It is seen here that The proportion of deaths at different periods of age, the per cent. and excess of the sexes, and the number of males to 100 The average annual per cent, of decedents under one year of age for the ten years 1871-1880 is 25.49, and the average third (39.95 per cent.) were under the age of five years. This tells the usual story of the annual destruction of infant life. unnual per cent. of decedents under five years of age is 40.46.

TABLE IV.—Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1880; also the Excess of Persons of each Sex.

AGES IN YEARS	Nυ	мв и в о 18	F DEAT	тв,	AT E	r. of D ach Ac al at Ages.	BE TO		CT. OF TOTAL SEX			THE S	SEXES SY SER.	Males
AND	m.4.1		Fe-	Y/1-	m-4-1		Fo.	Wales	Fe-	Exc	ess.	Males.	Fe-	100 Fe-
PERIODS.	Total.	Males.	males.	Unk.	Total.	Maies,	malos.	Malos.	males.	Males,	Fe- males.	M B 10st	malee.	males
All Ages	16,102	8,645	7,410	47	100.00	100.00	100.00	53.85	46.15	7.70		1,235		116.67
Under 1	3,971	2,225	1,705	41	24,66	25.74	23.01	56.62	43.38	13.24		5.20		130.50
1 to 2	1,090	568	521	1	6.77	6,57	7.03	52.16	47.84	4.82		47		109.0
2 to 8	590	818	277		3.66	3,62	3.74	53.05	4G.95	6.10		36		118.00
8 to 4	462	254	208		2.87	2.94	2.81	54.98	45.02	9.96	 	46		122.1
4 to 5	320	159	161		1.99	1.84	2.17	49.69	50.81	ļ	.62		2	98.70
Under 5	6,433	3,519	2,872	42	39.95	40.71	38.76	55.06	44.94	10,12	 	647		122.5
5 to 10	1,114	591	523		6.92	6.84	7.06	53.05	46.95	6.10		68		113.0
10 to 15	588	304	284		3,65	8.52	3,83	51.70	45.30	8.40		20		107.0
15 to 20	643	296	347		8.99	3.42	4.68	46,03	53.97		7.94		51	85,30
20 to 25	680	816	861		4.22	3.66	4.91	46.47	53,53		7.06		48	86.8
25 to 80	603	268	335		3.74	8.10	4.52	41.44	55.56		11.12	 	67	80.00
80 to 85	513	245	268	•	8. 19	2.83	8.62	47,76	52.24		4.48		23	9L4
85 to 40	556	260	296		3.45	3.01	8.99	46.76	53.24		6.48		36	87.84
40 to 45	460	235	225		2.86	2.72	8.04	51.09	48.91	2.18		10		104.44
45 to 50	461	264	197		2.86	8.05	2.69	57.27	42.73	14.54		67		184.0
80 to 55	416	241	175		2.58	2.79	2.36	57.93	42.07	15.86		66		187.7
55 to 60	474	269	205		2.94	3.11	2.77	56.75	43.25	13.50		64		181.2
60 to 65	557	330	227		3.46	3.82	8.06	59.25	40.75	18.50		103		145.87
65 to 70	564	334	230	•	8.50	3.86	8.10	59.22	40.75	18.44		104		145.25
70 to 75	568	339	229		3.53	8.92	3.09	59.68	40.32	19.38		110		148.00
75 to 80	511	296	215		3.17	8.42	2.90	57.93	42.07	15.88		81		187.67
80 to 85	363	223	140		2.25	2.58	1.89	61.43	38.57	22.86		83		159.99
85 to 90	194	93	101		1.20	1.08	1.36	47.94	52.06		4.12		9	92.08
90 to 95	51	20	31	•	.32	.23	.42	39.22	60.78		21.56		11	64.59
95 to 100	22	12	10		.14	.14	. 18	54.55	45.45	9.10		2		120.00
100 and over	9	7	2		.06	.08	.03	77.78	22.22	55.56		5		850.00
Unk. Ages.	822	183	134	5	2.00	2.12	1.81	57,73	42.27	15.46		49		136.57

Exhibit F shows the mortality in 1880 for each of the two sexes from infancy to old age. There is a very large excess of male decedents in infancy and childhood, but from the age of 14 up to 46 there is an excess of female decedents. The males are again in excess from 46 to 83, after which the death-rate is about equally divided between the two sexes.

EXHIBIT F.—Deaths Returned as having occurred in Michigan in 1880, by Sex, and Excess of the Sexes, by Age in Years.

		<i></i>	, u			0) 616			6/6 1				
AGE	D	ECEDE	ктв, 18	80.	Exc	7288.	AGE	Di	CEDE	NTS, 1	880.	Exc	E88.
IN YEARS.	Total.	Males.	Fe- males.	Unk.	Males.	Fe- males.	YEARS.	Total.	Males.	Fe- males.	Unk.	Males.	Fe- males.
All Ages	16,102	8,645	7,410	47	1,235		35	123	60	68			8
							86	101	47	54	 		7
Under 1	8,971	2,225	1,705	41	520		37	102	50	52	ļ		3
1	1,090	568	521	1	47		38	127	60	67			7
3	590	313	277		36		89	108	43	60			17
8	462	254	208		46		40	112	69	43		26	
4	320	159	161			2	41	85	39	46	ļ	ļ	7
5	804	151	153			9	42	106	49	57			8
6	269	151	118		33		43	66	34	82	ļ	2	
7	211	120	91	•	29		44	91	44	47		ļ	8
8	167	84	83		1		45	105	60	45		15	
9	163	85	78	•	7		46	93	46	47			1
10	158	81	77		4		47	83	51	82	ļ	19	
11	126	63	63				48	94	55	89		16	
19	111	62	49		13		49	86	52	34	 .	18	
18	91	50	41		9		50	96	58	38		20	
14	102	48	54			6	51	76	41	35		6	
15	87	41	46			5	52	88	53	35		18	
16	97	50	47		3		53	67	42	25		17	
17	121	52	69			17	54	89	47	42		5	
18	165	66	99			33	55	104	60	44		16	
19	173	87	86		1		56	109	61	48		13	
20	141	61	60	•••••	-	19	57	86	44	42		2	
31	147	75	72	•••••	3		58	90	50	40		10	
23	154	63	91			28	59	85	54	81		23	
23	119	55	64			9	60	123	66	57		9	*****
24	119	62	57		5	"	61	82	54	28			
25	111	45	68		"	21	62		60		•••••	26	•
	184		76			18		111	1	51		9	
26	1	58				- 1	63	181	85	46		89	*****
27	110	53	57			4	64	110	65	45		20	
28	159	74	85			11	65	141	85	56		29	
29	89	88	51			13	66	95	54	41		13	
80	125	65	60		5		67	105	58	47		11	
81	84	83	51			18	68	110	64	46		18	
89	111	55	56			1	69	113	78	40		83	••••
83	106	58	48		10		70	130	68	62		6	
84	87	81	53			19	71	94	63	31		82	•••••

EXHIBIT F.—Continued.—Deaths by Ages in Michigan in 1880.

AGE	Di	ECEDE	NTS, I	880.	Exc	ESS.	AGE	Di	CEDE	NTS, 1	80.	Exc	E55.
IN YEARS.	Total.	Males.	Fe- males.	Unk.	Males.	Fe- males.	YEARS.	Total.	Males.	Fe- males,	Unk.	Males.	Fe- males.
72	147	92	55		37		89	28	15	13		2	
73	100	60	40	ļ	20		90	16	10	6		4	
74	97	56	41	ļ	15		91	11	4	7			8
75	117	65	52		13		92	12	2	10			8
76	114	66	48		18		93	5	2	3			1
77	97	51	46		5		94	7	2	5			8
78	93	58	85	 .	23		95	6	8	3			ļ. .
79	90	56	34		22		96	6	1	5			4
80	110	70	40		30		97	3	3			3	
81	75	58	22		81		98	4	8	1		2	
82	63	41	22		19		99	8	2	1		1	
83	58	27	81			4	100	2	2			2	ļ
84	57	32	25		7		101	1	1			1	
85	64	28	36			8	103	1		1			1
86	40	22	18		4		104	4	3	1		2	
87	30	15	15	 			109	1	1			1	ļ .
88	82	13	19	 		6	Unknown.	322	183	134	5	49	

DEATHS BY MONTHS AT DIFFERENT AGES.

The distribution of mortality in 1880 at different periods of age in the several months may be seen in Exhibit G. There were 860 deaths reported in the month of January, of which 21.86 per cent. died under one year of age, and 39.42 per cent. died under five years of age; of the 1,002 deaths reported in February, 25.95 per cent. were under one year of age, and 39.72 per cent. were under five years of age. Of the 3,966 decedents under one year of age 4.74 per cent. died in January, 6.56 per cent. died in February, and 6.30 per cent. died in March.

The largest proportion of decedents aged under one year and under five years died in the month of August. It appears from the teaching of this Exhibit that August is the month of greatest danger to children under five years of age; and to persons aged 5 to 10, 10 to 20, and 50 and over, the month of greatest danger is December, while to persons aged 20 to 50 September is the month of greatest danger.

Tables V. and VI. give further details concerning deaths by sex, by months, and periods of age.

The Relation of the Deaths at Different Periods of Ane to Deaths at All Ages, by Months; and for the same EXHIBIT G.

DEATHS BY AGES IN	GES IN PERIODS OF YEARS.	YEAR,					×	MONTHB	8, 1880					
		1880.₽	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Bept.	Oct.	Nov.	Dec.
All Ages.		16,069	8	1,002	1,149	1,239	1,166	1,036	1,527	1,780	1,678	1,471	1,486	1,617
	Number	3,966	188	260	ន្ត	88	828	283	187	578	8	827	816	88
Under 1	Per Cent. of All Ages	24.70	21.86	25.96	21.78	85 13	20.41	22.49	28.42	32.30	27.45	22.23	21.27	24.68
	Per Cent. of Deaths, 1880	100.00	72.7	9.58	6.30	7.21	6.00	5.87	10.94	14.50	11.60	œ. 33	7.97	10.08
	(Number	8,428	83	88	404	121	386	1117	720	29	741	552	83	9
Under 5	Per Cent. of All Ages	10.01	29.43	39.73	35.42	35.23	83.36	89.67	47.15	48.76	14.21	37.53	36.20	37.66
	Per Cent. of Deaths, 1880	100.00	83.58	6, 19	6.33	7.07	6.05	6.40	11.20	13.51	11.53	8.59	8.37	9,48
	(Number	011,1	8	ន	88	16	75	8	8	102	33	125	125	131
6 to 10	Per Cent. of All Ages	6.91	7.83	8	6.96	7.08	6.43	6.08	6.23	5.73	5.73	8.50	8.47	8,10
	Per Cent. of Deaths, 1880	100.00	6.68	5.68	7.21	8,20	6.76	89.9	8.65	9.19	39.82	11.26	11.26	11.80
	(Number	1,236	8	8	86	97	8	88	113	126	127	119	107	139
10 to 20	Per Cent. of All Ages	7.63	9.43	2.99	6.96	7.68	7.63	8.49	7.40	7.08	7.58	8.09	7.20	8.60
	Per Cent. of Deaths, 1880	100.00	6.61	8.	6.53	7.91	7.26	7.18	9.22	17.28	10.36	9.71	8.73	11.34
	Number.	3,267	170	219	261	293	287	196	797	582	325	200	318	315
20 to 50	Per Cent. of All Ages	20.34	19.77	21.86	22.73	22.73	24.61	18.92	18.60	16.80	19.83	20.39	21.40	19.48
	Per Cent. of Deaths, 1890	100.00	5.30	6.70	7.99	8.97	8.78	6.00	8,68	9.15	9.95	9.18	9.73	9.64
	Number.	8,719	891	244	908	322	900	153	183	350	386	344	871	407
50 and over	Per Cent. of All Ages	23.16	21.86	24.85	28.63	21.98	25.73	24.23	18.40	19.66	21.18	28.39	24.97	25.17
	Per Cent. of Deaths, 1880	100,00	5.08	99.9	8.23	8.66	8.07	6.75	7.66	9.41	9.55	9.25	9.88	10.94
	Number	311	8	82	15	33	92	22	83	8	22	81	12	92
Unknown Ages	Unknown Ages PerCent. of All Ages	1.94	2.21	1.80	1.81	2.48	2.23	2.61	2.16	1.97	1.91	2.11	1.82	8.
	Don Cont of Death, 1000	5		i										

. Excluding unknown month.

TABLE V.—Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year, and in each Month of the Year 1880.

AGES IN PERIODS		YEAR,					3	ION	TH8,	1860.					
OF YEARS.	Sax.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	1
	Total	16,102	860	1002	1149	1289	1166	1036	1527	1780	1676	1471	1486	1617	
	Males	8,645	451	556	604	683	619	553	836	939	ย07	795	822	852	
All Ages	Females	7,410	407	442	545	601	545	479	688	834	764	671	661	758	İ
!	Unknown	47	2	4		5	9	4	3	7	5	5	3	7	-
(Total	3,971	188	260	250	286	238	233	434	575	460	327	816	399	-
1) Y7-do-1	Males	2,225	111	161	149	168	132	113	247	296	252	170	186	236	
ll Under l	Females	1,705	75	96	101	115	104	117	184	274	203	132	127	156	1
į	Unknown	43	2	3		3	2	3	3	5	5	5	3	7	-
ſ	Total	6,433	339	398	407	454	389	411	720	868	741	532	538	609	
	Males	3,519	182	229	238	256	214	260	403	455	399	302	297	339	١
ll Under5	Females	2,872	155	166	169	195	173	207	314	403	337	245	238	263	١
ł	Unknown	42	2	3		3	2	4	3	5	5	5	3	7	ŀ
(Total	1,114	63	63	80	91	75	63	96	102	96	125	123	131	l
to 10	Males	591	34	43	40	50	43	38	51	60	50	64	61	55	
	Females	523	29	20	40	41	32	25	45	42	46	61	64	76	
!	Total	588	33	28	30	46	40	43	53	69	56	56	57	73	
to 15	Males	304	14	12	16	23	19	23	, 33	40	28	26	31	36	ı
į	Females	284	19	16	14	23	21	18	20	29	28	30	26	37	l
(Total	643	48	32	50	51	49	45	60	57	71	63	50	66	
to 20	Males	296	23	17	22	16	23	20	35	28	30	32	24	26	-
	Females	347	25	15	28	35	26	25	25	29	41	31	26	40	
	Total	680	30	51	59	62	48	33	69	72	58	61	62	71	l
to 25	Malos	316	17	19	2:2	31	20	16	30	32	30	31	33	32	
	Females	364	13	32	37	31	28	19	3 9	40	28	3 0	27	30	ŀ
	Total	603	29	31	49	58	49	36	61	43	63	49	69	65	
s to 80	Males	268	9	14	21	22	24	18	24	23	35	18	31	28	
ļ	Females	335	20	17	28	3 6	25	18	37	20	28	81	38	37	-
	Total	513	26	30	32	41	51	37	45	46	47	55	57	45	
to 35	Males	245	ย	12	13	18	25	15	23	18	24	30	35	22	
	Females	268	18	18	19	23	26	21	22	28	23	25	22	23	-
1	Total	556	26	51	51	3 6	57	28	44	5 6	62	54	45	46	١.
s to 40	Males	260	13	26	23	16	23	13	19	25	33	30		20	ŀ
	Females	296	13	25	28	20	31	15	25	31	29	54	26	26	-
1	Total	460	23	24	34	49	40	27	37	4 6	43	41	46	42	
to 45	Males	235	12	13	16	26	18	15	22	51	23	25	20	21	
i	Females	223	16	11	18	23	22	12	15	22	20	19	26	21	١

TABLE V.—CONTINUED.—Deaths by Periods of Age, by Sex, by Months.

	·	-							90,						
AGES IN PERIODS	SEX.	YEAR,							THO,						
OF YEARS.	521.	1880.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Bept	Oct.	Nov.	Dec.	Unk.
1	Total	461	31	32	36	47	42	33	28	36	52	37	39	46	3
45 to 50	Males	264	15	35	21	29	26	17	14	19	87	21	24	25	1
į	Females	197	16	17	15	18	16	16	14	17	15	16	15	21	1
!	Total	416	24	25	38	45	28	30	32	30	46	33	42	43	• • • •
50 to 55	Males	241	15	13	20	28	18	16	19	15	25	20	32	22	
i	Females	175	9	12	18	17	12	34	13	15	21	13	10	21	
!	Total	474	17	29	38	37	38	26	48	43	43	52	57	46	
55 to 60	Males	269	11	18	21	15	21	18	25	21	27	29	34	29	
į	Females	205	6	11	17	22	17	8	23	22	16	23	23	17	
	Total	557	33	47	40	51	39	41	35	63	64	40	43	58	3
60 to 65	Males	830	20	29	21	27	25	28	21	34	33	26	33	36	3
(Females	227	13	19	19	24	14	18	34	20	31	14	10	22	1
(Total	564	33	32	52	40	47	39	38	58	39	61	58	67	2
65 to 70	Males	334	20	19	28	26	27	27	18	31	23	80	85	39	2
į	Females	230	18	13	21	14	20	12	20	25	16	22	23	28	
!	Total	568	29	31	46	52	52	33	48	54	55	53	60	56	1
70 to 75	Males	339	16	23	23	35	27	26	21	37	34	32	20	35	1
į	Females	229	13	11	23	17	25	7	22	17	21	21	81	21	
(Total	511	23	82	42	3 9	37	32	40	55	47	52	54	56	2
75 to 80	Males	296	12	19	25	26	25	19	24	27	23	26	37	33	
	Females	215	11	13	17	13	12	18	16	28	24	26	17	23	3
(Total	363	14	27	29	32	31	29	24	22	88	87	31	49	
80 to 85	Males	223	10	16	15	14	19	23	19	14	22	19	18	82	••••
	Females	140	4	11	14	18	12	4	5	8	16	18	13	17	
(Total	194	11	13	13	19	20	14	15	22	15	13	13	21	1
85 to 90	Males	93	7	8	7	4	3	5	14	17	7	6	5	9	1
	Females	101	4	7	6	15	17	9	3	5	s	7	10	12	
. (Total	51	4	1	6	4	4	5	5	3	4	2	7	6	
90 to 95	Males	20	2	1	1	1	3	2	2)	3	4	2	••••
į	Females	81	2		5	3	1	3	3	3	3	1	3	4	•
	Total	22		1	2	2	2	1	1	1	4	1	3	3	1
95 to 100	Males	12		1	1	1	2				2	1	2	2	
	Females	10			1	1		1	1	1	2		1	1	1
1	Total	9		1		1	2	1		1			1	2	ļ
100 and over	Males	7		i		1	1	1	 .				1	2	ļ
·	Females	2		 			1			1					
1	Total	322	19	18	13	32	26	27	33	35	32	31	27	16	11
	Males	183	11	8	10	18	15	13	19	19	21	17	15	7	10
Unknown	Females	134	8	y u	5	12	11	14	14	14	11	14	12	9	1
	Unknown	5	 	١,	١	2	ا	l		2	l <u></u>			l	<u> </u>

TABLE VI.—Exhibiting, by Sex and by Months, the Number Returned as having Died in Michigan during the Year 1880 at each and every Age, the Age stated in Iwelfths of a Year for those under One Year, and in Years for those over One Year of Age.

AGES	0	YEAR,						MONT	нв, 188	30.					
IN YEARS.	SEX.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	1,678	98	142	124	149	110	110	127	160	139	133	159	226	1
	Males	931	55	88	76	91	60	55	72	74	74	65	86	134	1
Under 1-12.	{ Females .	709	41	51	48	56	48	53	52	82	60	63	70	85	
	Unknown	38	2	3	ļ	2	2	2	3	4	5	5	3	7	
	Total	384	11	18	25	31	29	16	51	60	45	42	27	28	1
	Males	225	7	15	13	19	15	9	30	38	24	21	16	17	1
1-12	Females.	158	4	3	12	12	14	7	21	21	21	21	11	11	
	Unknown	1								1					
	Total	275	7	11	19	15	20	18	35	47	40	24	13	30	1
2-19	Males	175	6	8	11	11	11	5	24	29	27	17	7	19	
	Females.	100	1	3	8	4	9	8	11	18	18	7	6	11	1
	Total	269	13	19	8	9	10	19	33	54	32	22	24	26	
A	Males	141	6	14	4	5	7	13	17	25	15	6	14	15	
8-12	Females.	127	7	5	4	4	. 3	5	16	29	17	16	10	11	
	Unknown	1						1							
	Total	252	10	14	6	14	16	12	43	49	26	20	20	21	1
4-12	Males	135	5	7	1	10	9	7	21	26	9	11	15	13	
	Females.	117	5	7	5	4	7	5	22	23	17	9	5	8	
	Total	218	5	8	13	10	14	18	26	42	34	19	15	14	
	Males	125	3	5	8	5	9	8	15	26	17	10	10	9	
5-12	Females	92	2	3	5	4	5	10	11	16	17	9	5	5	
	Unknown	1			ļ. .	1									
•	Total	198	13	10	11	5	4	11	33	39	27	12	15	13	
6-12	Males	104	9	7	7	1	1	3	20	17	14	5	11	9	
	Females.	. 89	4	3	1	4	3	8	13	22	13	7	4	4	
	[Total	161	6	13	11	7	11	5	23	30	24	8	15	7	
7-12	Males	90	5	4	8	2	8	1	12	15	13	8	9	4	1
	[Females.	71	1	9	3	5	3	4	11	15	11		6	3	
	[Total	131	5	5	2	14	6	7	12	26	27	12	6	9	
8-12	Males	70	4	2	2	7	2	2	7	12	18	8	2	4	
	Females.	61	1	3		7	4	5	5	14	9	4	4	5	
	Total	152	8	5	12	14	10	8	19	22	30	8	8	8	
9-12	Males	99	6	3	7	7	6	4	13	17	18	4	8	6	
	Females .	53	2	2	5	7	4	4	6	5	12	4		2	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,					:	Mont	нв, 188	Ю.					
YEARS.	SEX.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1	Total	139	5	8	13	11	4	9	18	17	22	15	6	11	
10-12	Males	79	4	4	9	6	1	5	10	8	15	7	5	5	
	Females.	60	1	4	4	5	3	4	8	9	7	8	1	6	
(Total	119	7	7	6	7	4	5	14	29	14	,12	8	6	
11-12	Males	51	1	4	3	4	3	1	6	9	8	8	3	1	
	Females.	68	6	3	3	3	1	4	8	20	6	4	5	5	
1	Total	1,090	57	42	59	58	68	83	161	180	143	88	78	73	
	Malos	568	27	15	-35	28	35	42	89	95	74	55	38	35	
1	Females.	521	30	27	24	30	33	40	72	85	69	33	40	38	
į	Unknown	1						1							
9	Total	590	31	38	40	51	37	42	61	49	70	56	58	57	
2	Males	313	10	21	23	30	19	24	33	27	37	32	28	29	
	Females.	277	21	17	17	21	18	18	28	22	33	24	80	28	
(Total	462	29	29	36	32	30	33	45	42	38	49	49	49	1 3
······	Males	254	18	16	21	20	18	16	24	24	23	26	25	23	
(Females.	208	11	13	15	12	12	17	21	18	15	23	24	26	
	Total	320	34	29	22	27	16	20	19	22	30	32	37	31	
١	Males	159	16	16	10	10	10	5	10	13	13	19	20	16	
į	Females.	161	18	13	12	17	6	15	9	9	17	13	17	15	
	Total	304	13	20	24	24	28	13	31	25	30	31	34	31	
3	Males	151	7	14	12	13	14	9	16	12	13	13	16	12	
į	Females.	153	6	6	12	11	14	4	15	13	17	18	18	19]
1	Total	269	18	17	15	24	18	17	21	21	19	27	31	41	
3	Males	151	11	12	10	11	7	11	10	17	12	18	17	15	
	Females.	118	7	5	5	13	11	6	11	4	7	9	14	26	
!	Total	211	10	7	16	16	17	13	15	27	20	23	27	19	
7	Males	120	5	5	7	9	13	9	8	15	11	11	16	11	
į	Females.	91	5	2	9	7	4	4	7	12	9	12	11	8	
1	Total	167	11	10	14	18	7	11	14	15	10	22	16	16	1
3	Males	84	5	6	4	10	4	5	6	8	7	10	9	8	
	Females.	83	6	4	10	8	3	6	8	7	3	12	7	8	
1	Total	163	11	9	11	9	5	9	15	14	17	22	17	24	
•	Males	85	6	6	7	7	5	4	11	8	7	12	3	9	
i	Females.	78	5	3	4	2		5	4	6	10	10	14	15	
1	Total	158	9	6	7	14	14	11	14	15	12	19	16	20	1
10	Males	81	2	3	5	8	4	6	10	9	6	9	9	9	,
i	Females.	77	7	3	2	6	10	5	4	6	6	10	7	11	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,	<u> </u>					Mont	нв, 18	80.					
in Years.	SEX.	1880.	Jan.	Feb.	Mar.	Apr.	May.	Jane.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	126	8	7	7	9	5	5	8	16	16	9	12	22	2
n}	Males	63	3	2	3	4	3	4	2	7	11	6	6	12	
. [Females.	63	5	5	4	5	2	1	6	9	5	3	6	10	2
(Total	111	4	6	4	7	10	14	10	15	9	11	12	9	
19	Males	62	3	4	1	3	5	7	9	9	5	6	5	5	
l	Females.	49	1	2	3	4	5	7	. 1	6	4	5	7	4	
1	Total	કા	7	3	4	10	ថ	6	11	14	8	5	s	8	1
18	Males	50	4		2	7	5	3	ម	9	3	2	5	2	
į	Females.	41	8	3	2	3	1	3	3	5	5	3	8	6	1
ì	Total	102	5	6	8	6	5	7	10	9	11	12	9	14	
i i	Males	48	2	3	5	1	2	5	4	G	3	3	6	8	
•	Females	54	3	3,	3	5	3	2	6	3	8	9	8	6	
i	Total	87	3	3	9	8	8	4	8	в	9	7	9	13	
i	Males	41	1	3	5	4	4	3	3	4	4	2	4	4	
•	Females.	46	2	• • • •	4	4	4	1	5	2	5	5	5	9	
1	Total	97	10	8	8	3	7	5	5	12	15	8	11	5	
i	Males	50 47		4	4		4	3 2	3	8	6	3	5 6	8	
•	Females	121	.4	7	4	10 8	3 8	12	10	4	11	11	11	12	
ì	Total Males	52	4	5	3	4	4	4	5	12 4	5	5	2	7	
1	Females.	69	6	2	4	6	4	8	5	8	6	6	9	5	
•	Total	165	12	7	14	20	10	12	14	16	20	18	10	12	
1	Males	66	5	8	5	5	5	4	7	7	6	11	6	2	
	Females.	99	7	4	9	15	5	8	7	9	14	7	4	10	
•	Total	173	13	7	12	10	16	12	23	11	16	19	9	24	1
19	Males	87	7	2	5	3	6	6	17	5	9	9	7	11	
į	Females.	86	6	5	7	7	10	6	6	6	7	10	2	13	1
(Total	141	1	12	9	18	6	6	12	15	17	12	18	15	
20	Males	Gi	1	2	2	7	2	3	7	9	8	4	9	7	
· ·	Females.	60		10	7	11		3	5	6	9	8	9	8	
ſ	Total	147	10	13	12	19	y	4	13	16	14	13	11	12	1
31	Males	75	6	6	5	10	3	2	7	б	10	6	в	7	1
· ·	Females.	72	4	7	7	9	6	2	6	10	4	7	5	5	
. (Total	154	8	8	15	11	8	12	19	21	6	18	14	14	
22	Males	63	3	3	5	5	4	7	4	8	3	10	8	ន	
i	Females.	91	5	5	10	6	4	5	15	13	3	8	6	11	
ſ	Total	119	7	7	14	3	15	9	13	9	13	9	5	15	
i	Males	55	4	4	3	3	5	3	6	5	6	6	2	8	
(Females	64	3	3	11		10	6	7	4	7	3	8	7	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR.						Mont	us, 188	30.					
YEARS.	SEX.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	119	4	11	9	11	10	4	12	11	8	9	14	15	
24	Males	62	3	4	7	6	6	1	6	4	3	5	10	7	
	Females .	57	1	7	2	.5	4	3	6	7	5	4	4	8	Ī
	Total	111	6	3	8	9	13	S	13	6	10	4	15	16	
25	Males	45		3	4	2	6	4	7	1	4	2	7	5	
	Females .	66	6		4	7	7	1	6	5	6	2	8	11	
	Total	134	7	10	9	15	9	7	12	12	12	14	16	11	
BG	Males	58	2	6	2	3	4	5	6	6	5	7	7	5	
	Females .	76	5	4	7	12	5	2	6	6	7	7	9	6	
	Total	110	3	2	10	14	9	5	6	7	12	0	16	16	
7	Males	53	2	1	4	6	5	3	2	4	8	4	7	8	
	Females .	57	1	1	6	8	4	9	4	3	6	5	9	8	
	Total	159	5	13	17	14	9	10	10	11	21	15	12	13	
28	Males	74	1	3	9	7	5	4	8	G	16	13	7	5	
	Females .	85	4	10	8	7	4	g	11	5	5	12	5	8	
	Total	80	8	3	0	6	9	6	11	7	8	7	10	9	
9	Males	38	4	1	*	4	4	2	1	6	4	2	3	5	
	Females.	51	4	2	3	2	5	4	10	1	4	5	7	4	
	Total	125	5	8	8	7	12	12	я	10	17	10	13	15	
30	Males	65	2	5	2	2	7	U	5	4	10	6	9	6	
	Females.	60	3	3	4	5	5	6	-4	6	7	4	4	9	
	Total	84	8	5	3	ß	8	5	5	13	8	9	5	9	
31	Males	33	2	2	1	2	4	2	9	4	4	4	3	3	
	Females.	51	6	2	2	4	4	3	3	9	4	5	2	6	
	Total	111	3	4	4	16	12	7	12	5	7	15	13	10	
32	Males	55	1	2	1	6	6	5	7	5	2	8	G	G	
	Females .	50	2	2	3	10	6	2	.5	9	- 5	7	7	4	
	Total	106	8	10	8	8	11	5	0	9	9	12	14	7	
83	Males	58	2	3	G	4	6	1	3	4	5	9	10	5	
	Females.	48	6	7	2	4	5	4	3	4	4	3	4	2	
	Total	87	2	3	11	4	8	8	13	7	.0	9	12	4	
34	Males	34	1		3	4	2	9	6	1	3	3	7	2	***
	Females.	53	1	3	8		6	6	7	G	3	G	5	2	
	Total	123	5	12	8	10	19	5	G	10	13	18	10	7	
15	Males	60	2	7	4	3	S	2	3	6	8	11	3	3	
	Females.	63	3	5	4	7	11	3	3	4	5	7	7	4	
	Total	101	4	4	11	8	6	6	12	10	10	11	9	10	
36	Males	47	3	2	5	4	1	2	5	4	5	6	4	6	***
	Females .	54	1	2	0	4	5	4	7	6	5	5	5	4	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR.						Mont	нѕ, 189	30.					
IN YEARS.	SEX.	1880,	Jan.	Feb.	Mar.	Apr.	May.	Jane.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	102	6	12	10	2	12	9	8	8	13	9	4	9	
37	Males	50	4	7	3		6	4	2	6	7	6	1	4	
	Females.	52	2	5	7	2	6	5	6	2	6	3	3	5	
	[Total	127	7	13	15	9	9	2	9	18	14	7	11	13	ļ
88	Males	60	3	6	9	5	5	1	5	5	7	3	6	5	
	Females.	67	4	7	6	4	4	1	4	13	7	4	5	8	
	(Total	103	4	10	7	7	11	6	9	10	12	9	11	7	
39	Males	43	1	4	2	4	3	4	4	4	6	4	5	9	
	Females.	60	3	6	5	3	8	2	5	6	6	5	6	5	
	Total	112	6	8	7	11	10	6	9	11	11	16	8	9	
10	Males	69	3	7	4	5	5	5	7	7	7	11	3	5	
	Females.	43	3	1	3	6		1	2	4	4	5	5	4	
	[Total	85	8	4	5	5	7	3	8	10	9	8	13	5	
1	Males	39	3	1	1	2	3	2	4	8	5	4	5	1	
	Females.	46	5	3	4	3	4	1	4	2	4	4	8	4	
	Total	106	4	6	11	19	5	5	7	10	13	9	8	9	
12	Males	49	1	2	5	10	9	3	5	2	5	4	3	7	
	Females.	57	. 3	4	6	9	8	2	2	8	8	5	5	2	
	Total	66	3	1	5	6	10	5	5	5	5	7	5	9	
43	Males	34	2		3	2	5	4	9	3	2	4	4	3	
	Females.	32	1	1	2	4	5	1	3	2	3	3	1	6	
	Total	91	7	5	6	8	8	8	8	10	5	4	12	10	
u	Males	44	3	3	3	7	3	1	4	4	4	2	5	5	
22.3	Females.	47	4	2	3	1	5	7	4	6	1	2	7	5	
	[Total	105	4	6	6	12	13	5	9	8	13	9	6	13	1
45	Males	60	9	3	2	11	8	4	3	3	9	5	3	7	
	Females.	45	2	3	4	1	5	1	6	5	4	4	3	6	,
	[Total	93	9	9	7	12	3	10	7	3	7	6	6	14	
46	Males	46	3	8	4	4	2	3	4	2	3	4	4	10	
	Females.	47	6	6	3	8	1	7	3	1	4	2	2	4	
	[Total	83	6	5	8	8	5	7	5	9	8	7	9	5	,
17	Males	51	2	3	4	5	9	6	4	6	6	9	8	2	,
	Females.	32	4	2	4	3	3	1	1	3	2	5	1	3	
	(Total	94	6	6	9	10	10	7	5	6	11	7	8	9	
48	Males	55	5	2	7	7	7	9	2	5	8	3	4	3	
	Females	39	1	4	9	3	3	5	3	1	3	4	4	6	
	Total	86	6	6	6	5	11	4	2	10	13	8	10	5	
49		52	3	4	1	2	7	2	1			7	100	3	
	Males		100	7	4		100	1.77		3	11	10.5	5	1	
	(Females.	34	3	2	2	3	4	2	1	7	2	1	.5	2	****

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES	125	YEAR,						MONT	ня, 18	80.					
YEARS.	SEX.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	(Total	96	5	4	10	8	7	7	7	7	10	13	9	9	
0	Males	58	4	3	6	6	3	3	4	3	6	7	8	5	
	Females .	38	1	1	4	2	4	4	3	4	4	6	1	4	
	Total	76	6	8	4	7	7	4	4	3	10	6	11	6	
1	Males	41	1	3	2	5	4	2	3	3	6	3	7	2	1.
	Females.	35	5	5	. 2	2	3	2	1		4	3	4	4	
	Total	88	6		11	10	2	7	11	9	11	3	8	10	
2 <u>.</u>	Males	53	5		4	6	2	4	7	4	6	2	7	6	
	Females.	35	1		7	4		3	4	5	5	1	1	4	
	Total	67	3	7	7	9	6	2	3	5	4	6	5	10	
3	Males	42	2	5	5	5	4	1	1	9	3	5	3	6	
	Females.	25	1	2	2	4	2	1	2	3	1	1	2	4	
	Total	89	4	6	6	11	6	10	7	8	11	5	9	8	
	Males	47	3	2	3	6	3	6	4	3	4	3	7	3	
	Females.	42	1	4	3	5	3	4	3	3	7	2	2	5	
	Total	104	4	4	8	3	5	7	11	12	12	9	13	16	
5	Males	60	3	4	3	1	2	4	7	5	s	3	9	11	
	Females.	44	1		5	2	3	3	4	7	4	6	4	5	
	(Total	109	4	6	11	8	6	n	19	8	6	14	14	10	
6	i Males	61	2	4	6	5	3	2	10	2	2	12	7	6	
	Females	48	2	2	5	3	3	1	9	6	4	2	7	4	
	Total	86	4	6	5	10	7	5	5	7	6	10	13	8	
7	Males	44	2	4	4	3	2	5	3	5	3	3	6	4	
	Females	42	2	2	1	7	5		2	2	3	7	7	4	
	Total	90	3	6	7	9	10	5	8	8	9	8	10	7	
8	j Males	50	3	2	3	3	8	2	3	4	6	4	6	6	-
] [Females	40		4	4	G	2	3	5	4	3	4	4	1	
	Total	85	2	7	7	7	10	6	5	8	10	11	7	5	
9	Males	54	1	4	5	3	6	5	2	5	8	7	6	2	
	Females.	81	1	3	2	4	4	1	3	3	2	4	1	3	
	Total	123	7	4	10	12	6	12	9	13	12	15	10	11	1
0	Males	66	5	2	4	4	4	6	3	4	6	11	9	7	
•	i Females	57	2	2	6	8	2	6	6	9	6	4	1	4	
	Total	82	3	9	6	6	7	3	5	8	13	6	5	11	
1	Males	54	1	7	4	4	6	1	3	5	9	4	3	7	
	Females	28	2	2	2	2	1	2	2	3	4	2	2	4	
	(Total	111	9	6	4	12	11	11	4	11	14	7	6	16	
32	Males	60	6	2	1	5	6	7	2	7	4	4	4	12	ĺ
	Females.	51	3	4	3	7	5	4	2	4	10	3	2	4	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						Mont	ня 186	30.					:
IN YEARS.	SEX.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Bept.	Oct.	Nov.	Dec.	Unk.
	Total	131	10	15	10	11	9	6	11	16	14	5	12	11	Ι,
53	Males	85	8	8	6	6	5	4	11	10	7	8	11	7	,
(Females.	46	4	7	4	5	4	2		6	7	2	1	4	
ſ	Total	110	4	18	10	10	6	9	6	15	11	7	10	9	
14	Males	65	2	10	6	8	4	5	2	8	7	4	6	8	
· {	Females.	45	2	3	4	2	2	4	4	7	4	3	4	6	
(Total	141	9	7	14	9	12	10	12	11	7	20	18	12	
i5	Males	85	6	8	7	7	8	7	5	8	4	12	10	8	
{	Females.	56	3	4	7	2	4	3	7	8	8	8	8	4	ļ
(Total	95	2	7	8	10	9	5	5	11	8	10	13	7	ļ
×6	Males	54	1	4	8	5	8	3	2	6	5	5	7	5	
- (Females	41	1	8	5	5	1	2	8	5	3	5	6	2	
[Total	105	6	6	11	4	8	14	7	12	1	16	7	12	
57	Males	58	3	4	8	2	8	9	8	6		13	3	4	
į	Females.	47	3	2	8	2	5	5	4	6	1	8	5	8	ļ
1	Total	110	8	8	11	7	10	4	9	11	13	8	7	70	ļ
58	Males	64	5	2	8	5	6	8	5	4	7	5	6	13	
l	Females	46	8	1	8	2	4	1	4	7	6	3	1	6	
1	Total	113	8	9	8	10	8	6	5	11	10	7	13	17	
19	Males	73	5	6	7	7	2	5	8	7	7	4	10	9	
į	Females.	40	8	8	1	8	6	1	2	4	3	8	8	8	ļ
(Total	130	9	5	9	11	11	2	15	12	15	8	18	15	ļ
70	Males	68	5	4	- 4	5	3	2	5	9	9	4	10	8	
į	Females	62	4	1	5	6	8		10	8	6	4	8	7	
(Total	94	4	8	9	11	10	8	3	8	7	10	10	6	
n{	Males	43	2	6	7	10	5	5		5	5	9	5	4	
ł	Females	81	2	2	2	1	5	8	8	3	2	1	5	2	ļ
1	Total	147	6	10	14	14	16	12	9	15	14	12	10	14	1
79	Males	92	8	7	6	10	9	11	7	9	9	5	4	11	İ
ĺ	Females.	55	8	8	8	4	7	1	2	6	5	7	6	8	
(Total	100	6	2	10	5	7	4	9	8	11	13	15	10	 -
78	Males	60	4		5	5	8	2	7	7	6	8	7	в	
į	Females.	40	2	2	5		4	2	2	1	5	5	8	4]
(Total	97	4	9	4	11	8	7	7	11	8	10	7	11	
74	Males	56	2	6	1	5	7	6	2	7	5	6	8	6	ļ
i	Females	41	2	3	8	6	1	1	5	4	3	4	4	5	ļ
j	Total	117	7	12	11	4	8	10	7	10	ย	13	18	11	,
78	Males	65	5	9	8	2	4	7	8	7	8	5	9	8	ļ
	Females.	52	2	8	8	2	4	8	4	3	6	8	4	8	,

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR.						Mont	па, 198	0.					
in Years.	SEX.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Bept.	Oct.	Nov.	Dec.	Dak
	Total	114	8	6	12	10	7	7	10	11	18	12	8	10	
76	Males	66	3	5	7	7	5	8	6	5	6	6	5	7	ļ
-	Females	48	5	1	5	8	2	4	4	6	7	6	3	8	ļ
	Total	97	2	3	3	9	5	6	8	19	6	9	13	14	ļ
π	Males	51	1	1	3	6	3	2	,4	8	2	6	8	7	
i	Females	46	1	2		3	2	4	4	11	4	8	5	7	
	Total	93	3	2	8	6	11	5	5	5	12	13	14	10	
78	Males	58	2	2	6	3	7,	5	3	8	6	7	10	4	
	Females .	35		 	2	3	4		2	2	6	6	4	8	
	Total	90	4	9	8	10	6	4	10	10	7	5	6	11	
79	Males	56	1	2	6	8	6	2	8	4	6	2	4	7	ļ
t	Females	84	8	7	2	2		2	2	6	1	8	3	4	ļ
	Total	110	3	6	9	10	10	15	15	5	12	8	7	10	 -
80	Males	70	2	2	5	5	5	12	11	4	8	5	3	8	ļ
i	Females.	40	1	4	4	5	5	3	4	1	4	8	4	2	
-	Total	75	4	5	7	6	6	4	4	8	11	8	7	10	ļ
81	Males	53	2	3	5	2	5	4	4	3	5	6	7	7	ļ
i	Females	22	2	2	2	4	1				6	2		8	
1	Total	63	2	9	3	5	6	6	2	1	5	10	6	8	
82	Males	41	2	7	2	4	8	6	2	1	5	2	8	4	ļ
İ	Females .	22		2	1	1	8			•••••		8	8	4	
	Total	83	1	5	4	8	6	4	1	6	7	5	1	10]
88	Males	27		2	2	2	. 2	8	 -	2	8	2		6	ļ
	Females	31	1	3	2	6	1	1	1	4	4	3	1	4	 -
	Total	57	4	2	6	3	3	·	2	7	3	6	10	11	
84	Malos	32	4	2	1	1	1		2	4	1	4	5	7	
	Females.	25			5	2	2			8	2	2	5	4	ļ
	Total	64	4	8	6	5	7	1 	3	4	8	6	4	7]
85	Males	28	2	6	4		 -		3	2	3	4		8	1
	Females	36	2	2	2	5	7	1		9	5	2	4	4	ļ
	Total	40	5	1	·	4	3	4	6	4	3	1	5	4	
86	Males	22	4			2	2	1	5	3	1		3	3	
İ	Females	18	1	1		3	1	8	1	.1	2	1	3	2	
(Total	30	2	3	2	2	2	4.	3	8		2	2	5	 -
57	Males	15	1	2		1	1	1	3	2		1	1	8	 -
1	Females	15	1	1	2	1	1	3	·	1		1	1	8	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,						Mona	тна, 18	80.					
IN YRARS.	Sex.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	dak.
	Total	32		2	3	5	4	1	1	7	1	1	4	8	
88	Males	13			1				1	7			2	2	ļ
i	Females.	19	.,	2	2	5	4	1			1	1	2	2	 .
(Total	28		1	2	3	4	4	2	4	3	3	 -	2	ļ
89	Males	15			2	1		3	2	8	3	1			ļ
	Females.	13		1		2	4	1		1	 	2		2	 -
ſ	Total	16	2	1	1	2	3	1	2		1	1		2	
90	Males	10	2	1	•	1	2		1		1	1		1	 -
ł	Females.	6			1	1	1	1	1	•				1	
(Total	31			2		1	2	1	2	1	1	1		
91		4		•	1		1	1	•••••				1		ļ
į	Females.	7			1			1	1	2	1	1			 -
1	Total	12	2		2			1	1				4	2	
92	Males	2				•	•••••				 		2		
(Females.	10	2		2			1	1				2	2	
ļ	Total	5			1	1	•			1			1	1	
93 {	Males	2					•••••	•••••	•••••				1	1	ļ
į	Females.	3			1	1			•••••	1					
{	Total	7	••••	••••	•••••	1	•••••	1	1	•••••	2		1	1	
94	Males	2		••••			•	1	1			 -			
į	Females	5	••••	••••	•••••	1	•••••				2		1	1	
ſ	Total	ថ			1	1	•••••	•••••	•••••	•••••	2		1		1
95	Males	3	••••	••••		1	•	••-	•••••		1		1		
į	Females.	3		••••	1	• • • • • • • • • • • • • • • • • • • •	•	•			1				,
1	Total	6			• • • • • •		1	1	1	1	1		•	1	
96	Males	1		••••		••••	1	•		•••••			••••		
	Females.	5						1	1	1	1			1	
97	.Males	8	••••			•••••	1	•••••	•••••	•••••	l 1 İ			1	
	Total	4			1	•••••						1	2		
98	Males	3			1				•••			1	1		
ĺ	Females.	1			•••••			•••••	•••••				1	ļ	
{	Total	3		1		1								1	
99	Males	2	•	1					•••••		•••••			1	
	Females.	1				1		•							
100		2						•••••					1 1	1	
101		1				1								i	
103	.Females	1	····							1					

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR.	1					Mont	на, 188	0.					
YEARS.	SEX.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	4		1			2							1	
104	Males	8		1			1							1	
	Females.	1					1								
109	.Males	1						1		*****					
	Total	322	19	18	15	82	26	27	33	35	32	31	27	16	11
	Males	183	11	8	10	18	15	13	19	19	21	17	15	7	10
Unknown	Females.	134	8	9	5	12	11	14	14	14	11	14	12	9	1
1	Unknown	5		1		2				2					

INFANT MORTALITY.

The total number of deaths, the number of still-births, and the per cent. of still-births to total deaths are shown in Exhibit 2. The largest number and per cent. of still-births is shown for the year 1878, and it is worthy of note that since 1878 the number of still-births returned has been decreasing. In 1878 the per cent. of still-births to total deaths was 6.21; in 1879, 5.20 per cent.; and in 1880, 4.58 per cent.

EXHIBIT 2.—The Relation of Still-births to All Deaths Returned as having occurred in Michigan during the Year* 1875 to 1880 inclusive, corrected by means of the Returns of Births.

	To	TAL DE	ATHS A	ND STIL	L-BIRTE	18.
	1875.	1876.	1877.	1878.	1879,	1880.
Total Number of Deaths	11,990	12,576	12,919	12,766	14,407	16,102
Rumber of Still-births	629	646	720	793	749	788
Per Cent. of Still-births to Total Deaths	5.25	5,14	5.57	6,21	5.20	4.58

17-1880.

TABLE VIII.—Exhibiting, by Sex, the Number of Children under One Year of Age Beturned as having Died in Michigan during the Year 1880; distinguishing the Months in which they Died, their Age in Months at Death, the Months in which they were Born in the Year of Death or in the Previous Year.

	LOWIN	OF YEA	NUMBER BORN IN EACH MONTH OF YEAR OF DRATH.	MONTH		MBER	0 40	KILDE	EN W	no Di	ED AT	EAG	A AGE	IN M	NUMBER OF CHILDREN WHO DIED AT EACH AGE IN MONTHS.	17-1	Number Born in each Month of Year Previ. ous to Year of Death.	Year I	Previ.	-		DE	ATIIS	DEATHS BY MONTHS.	NTHS.		
	-	Total	300	No. of			c				4	-		-	9		No. of	Total	.inc	N.	ОР ТИОЯВ ВОВУ 13 УКАВ, ОР DRATH.	MEN IN	Or y Pre	OF THOSE BORN IN PREVIOUS YEAR,	EAB.	ALL AGED UN-	E YEAR
Occurred.	xea	Tomer	ocx.	Sex.	ŕ	-	7	ń	÷	ń	ó	:	ó	5	2		_	Louis	_	-	Sex.	Total.		Sex.	Total.	Sex.	Total
January	1	286	Males	166	55	1-4	9-	96	1010	00.01	04	10	411	10 OH	411	45	III				41	96		34	90	111	186
February		1550	Males	193	825	55.50	20 00	40		1010	1-10	40	0100	60 61	44	*00	H9	7			103	157		25	100	161	257
March		327	Males	131	16	22	118	44	-10	00 kg	1-4	80 90	09 ;	1-10	04	00 00	80-	15			100	168		\$18	85	149	520
April		341	Males	189	28	1212	74	104	64	64		64 10			99	400	20	21			126	202		35	81	168	283
Мау		580	Males Females.	152	88	27	116	1-10	97	6.0	-130	00 00	01-41	9.₩		20 H	200	30		7 7	105 S1	183		23	53	132	236
June	'0	583	Males	159	253	91-	10.00	13	1-10	10	00.00	-4	0110	74	10.4	-	123	88	.6	.0	268	185	.6	92	45	113	230
Jaly	881	979	Males	167	6163	30	21	17	22	22	13	212	-10	629	0.20	900	200	119	181	881	198	345	ZSL	88	88	247	431
August		970	Males	128	7.28	828	18	88	888	16	123	23	110	120	00.00	600	64.50	22			250	476	-	48	94	296	570
September		215	Males	117	429	22	13	11	17	11	#22	13	E o	158	15	89	123	10		77	178	389		48	99	252 203	455
October		185	Males	100	33	22	17	16	1 6	10	10	œ ;	20-4	44	1-80	84	1982	113			155	202		22	27	170	322
November		184	Males	103	38	118	-0	10	20	0.0	=*	00	01-4	oo !	10	800	53	118			123	305		1010	œ	186	313
December		219	Males	134	134	17	61	15	133	0.	0	-	4	9	10	Ξ	93	12			938	808			Ī	936	899

					3,925
				2,221	
	10		732		-
		404			
	3,193				
1,817					
II			732		
11		40 1	-		
-10	9	50	113	89	119
25	11	88	155	6.9	139
20	24	81	128	98	159
22 23	10	88	17	70	131
38	20	36	20	22	160
22	139	88	24	104	193
32	168	30	49	135	217
38	202	223	7	132	102
111	228	25	40	141	368
98	256	77	18	175	274
154	871		732 11	382	
709	1639			1639	
1,817	3,193			a 3,925	
Females.	93 Total	Males		Total	
	8,1				
.08	18	.625	18	nnder	ar.
Of those Born in	Death.	Of those Born in	Frevious Year,	All aged	One Ye

• Excluding 4 males and 1 female, mouth of death unknown; and 41 deaths of persons of unknown sex, -46 in all.

BIRTH-MONTHS MOST PAVORABLE TO THE LIFE OF THE CHILD.

in Exhibits 3, 4, and 5, and Table VIII. Exhibit 3 shows the number of children who were born in each month of the in 1879, 10.50 per cent. of them died before reaching the age of one year; of the 17,746 male births in 1879, 11.52 per cent. of them died under one year, and of the 16,302 female births in 1879, 9.43 per cent. of them died under one year of The excess of infant-mortality, which was illustrated on previous pages, may be still farther and more accurately studied year 1879, and the number who died in 1879 and 1880 aged under one year. It thus appears that of the 34,092 births age, the excess of male decedents being 2.09 per cent.

February, the smallest is September. For the year 1874, the largest is February, the smallest is November. For the year 1873, the largest is March, the smallest is November. From the evidence of Exhibit 3, for the years 1872-1879, it seems that children born in the latter part of the year have the decedents under one year was April, that showing the least was August. For the year 1877, the largest is February, the The largest per cent of the decedents born in 1879, who died under one year of age, is shown for those born in the month of February, the smallest for those born in August. In the year 1878, the birth-month showing the largest proportion of smallest is September. For the year 1876, the largest is April, the smallest is December. For the year 1875 the largest is

best chance of living past the age of one year. The above Table, VIII., although somewhat difficult and complicated in its construction, affords some very interesting data concerning decedents under one year of age. The heavy line running diagonally through the table separates the deaths of children born in the year 1880 from those born in the year 1879. For fuller explanations of this table see "Stalistics of Michigan, 1870," and the Report of 1871.

EXHIBIT 3.—Of the Children Born in 1879, the Number who Died during the Year 1879; the Number who Died during the Year 1880, under One Year of Age; The Total Number who Died under One Year of Age; and the Per Cent. of Decedents Aged under One Year to the Children Born in 1879, according to the Returns.

		Сип	Спігрвия Вови ім 1879.	OBN IN 1	879.		M	MALES BORN IN 1879.	ln in 187	ę.		F F	FEMALES BORN IN 1879.	BN IN I	879.
MONTES OF BIRTH.	Births in 1879, as Beturned.	Died during the Year 1879.	Died Aged under 1 Year during the Year 1890.	Total Died Aged under 1 Year.	Per Cent. of Deaths under I to	Births of Males in 1879, as Returned.	Died during the Year 1879.	Died Aged under 1 Year during the Year 1880.	Total Died Aged under 1 Year.	Per Cent. of Deaths under 1 to Births.	Births of Females in 1879, as Returned.	Died during the Year 1879.	Died Aged under 1 Year during the Year 1880.	Total Died Aged under 1 Year.	Per Cent. of Deaths under 1 to Births.
Total	84,093	2,840	733	3,581	10.50	17,746	1,640	101	2,044	11.52	16,803	1,209	88	1,637	9.43
January	2,429	202		255	10.50	1,250	142		143	11.86	1,174	113		118	9.63
February	2,831	8	7	8	13.00	1,195	171	-	172	14.39	1,133	125	9	131	11.56
March	2,758	316	21	828	11.89	1,409	179	00	187	13.27	1,847	187	•	141	10.47
April	2,706	310	23	333	12.27	1,406	170	13	83	13.09	1,297	970	6	149	11.49
Мау	2,843	346	8	276	9.71	1,509	144	20	197	10.87	1,829	102	9	112	8.43
June	2,626	246	8	58	10,81	1,331	137	23	92	12.02	1,391	100	15	121	9.60
July	8,013	231	91	283	9.34	1,546	137	55	191	10.41	1,467	3 6	27	121	8.25
Angust	3,198	211	23	782	8.58	1,664	132	42	174	10.46	1,530	79	31	110	7.19
September	8,149	222	97	838	10.45	1,686	138	7	182	10.79	1,460	76	53	147	10.01
October	3,036	172	113	283	9.30	1,601	106	19	167	10.43	1,431	\$	22	118	8.25
November	2,766	146	118	š	9.54	1,448	83	75	158	10.91	1,314	8	43	106	8.07
December	8,233	188	171	828	11.10	1,761	101	93	194	11.41	1,529	81	78	165	10.79

. Excluding 30 in unknown month,—11 males, 15 females, and 4 unknown sex.

EXHIBIT 4.—The Months of Birth and of Death of Children Born in 1879 who Died Under One Year of Age.

MONTHS	0. BIRTH, 1879.	Born in 1879, died aged under 1 Yr.	January	February	March	April	Мау	June	July	August	September	October	November	December		each Age. Ages in
		~~~		<del>-</del> -	-		•	<del>-</del> -	·	<del></del>	<u> </u>		i	<u> </u>	po	
y Ke	Born in Died un Year of	3,581	955	308	328	583	976	88	282	188	329	285	264	359	189	
	.net	106	100	1		-1	-		1		1	1	- 1	1		13
	Feb.	13	8	1	1	1	-1	1			1		-		1	
	Mar.	202	15	18	1	1	-		-	- 1	- 1	1	-		1	
Moz	April.	207	19	2	100	18	1		1	1		- 1	-1	-	1	
MONTHS	May.	134	100	6	1	18	1	1		- 1	1	-	1	1	1	
OF D	.eant	176	16	12	*	1	12	8	1	1	1	1	1		1	
DEATH,	.Vint.	278	8	19	81	61	8	8	2	1	-	1		1		
r, 1879.	'SuV'	373	18	8	4	74	18	-8	18	18	1	1	1	1	1	
	gebr	310	16	19	2	8	2	8	5	8	18	1	Ť	i		
	Joo	287	12	有	=	19	A	8	4	8	*	M	1	1	İ	
	.vov	539	100	*	2	2	1	2	0	-	8	2	1	1	Ī	
	Dec.	331	1	1.	5	6	1	M	E	A	81	a	K	1	1633	•
	Jan.	90	1	1	10	100	6	6	19	6	=	A	1	/= )	293	•
	Feb.	100	1	i	1	10	6	6	2	19	*	Z	A	1	240	0
	Mar.	88	11	i	1	10	12	2	6	4	1	1	1	1	221	0
Mon	April.	81	11	i	1	1	1-	/=	4	1	1	6	1	×,	189	•
Момтив	May.	23		1	i	i	1	1	4	1	16	1	1	1	175	*
04.0	Jame.	45	1:	1	1	i	i	1	6	6	6	1	1	1	157	
DEATH,	July	88	İ	Ť	İ	i	i	Ť	1	12	1	1	1	1	153	+
1, 1880.	.SuA	ä	11	i	Ť	i	i	:	i	1	8	1	1	1	116	0
90.	gebr	99		i	i	i	Ť	Ť	Ť	i	1	1	1	18	201	0
	.tsO	27	İ	Ť	i	i	Ť	Ť	i	i	i	寸	1	12,	158	4
	Nov.	00	i	i	Ť	ij	Ť	i	+	Ť	i	+	+	6	120	:
	Dec.		1	1	1	1	1	1	-	T	-	1	:	1,	-	
16bn	Per Cent. Aged u		41.67	39.93	47.26	41.57	48.84	42,25	44.68	48.24	11.11	48.07	48.86	52.87	45.60	
He-	Birthe 1879, ne turned	34,092	2,429	2,331	2,758	2,706	9,842	2,626	3,018	8,198	3,149	3,036	9,768	8,233		
un p	Per Cen Children Died age der I me															

That is, per cent. of children who died during month of birth to total born in 1879 who died aged under one year.
 Excluding 30 in unknown month,—Il males, befamiled and 4 of unknown as.
 That is, of the children born in 1879, the per cont, who died during month of birth,—according to the returns of births and of deaths. It should be borne in mind that prebably a larger proportion of the births and of the deaths are returned for the latter months of the year.

MONTES OF GREATEST DANGER TO CHILDREN AGED UNDER ONE YEAR.

this interesting subject, and may be studied as follows: 255 children were born in January, 1879, who died aged under one year, of which 106 died in January, 20 died in February, 14 died in March, and 16 died in April, etc. In like manner can According to the data given in Exhibit G, and Tables V. and VI., on previous pages, the month of August was found to be traced the months of deaths of children born in each month of the year 1879, who died aged under one year. The figthe last shows what per cent. of the children born in each month of the year 1879, died aged under one month. The be the one of greatest danger to children aged under one year. Exhibit 4 on page 133, also contains important evidence on ures in the line next to the bottom show the number of children who were born in 1879 who died at each month of age under one year. Of the 3,581 children born in 1879 who died before reaching the age of one year, 1,633 died in the month of birth, 293 lived to the age of one month, 240 lived to the age of two months, etc. The column of figures the third from smallest per cent. is for February, the largest for December; that is, the chances of living past the age of one mouth are better for children born in February than for those born in any other month.

EXHIBIT 5.—The Relation, by Months, by Total, and by Sex, of the Decedents Aged under One Month to the Births in Michigan during the Year ending December 31, 1880.

		,						Жо	Момтив, 1830.	30.					
-	Sex, etc., specified.	1880.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Births	86,828	2,325	2,513	2,850	2,824	2,880	2,772	8,011	8,285	8,278	8,173	8,068	8,278	8
Total	Total Deaths aged under one month.	1,678	88	143	124	149	110	110	127	180	130	83	95	326	-
	Per Cent. of Deaths to Births	4.75	4.16	28	4.85	6.28	8.83	8.97	4.99	4.87	4.2	4.19	6,18	6.8	2.78
	Births	18,873	1,234	1,835	1,506	1,502	1,472	1,424	1,563	1,683	1,678	1,646	1,628	1,680	18
Males	Males Deaths aged under one month	931	8	88	76	ã	8	28	22	72	2	8	88	134	-
_	Per Cent. of Deaths to Births	20.9	4.46	25	50.03	9.08	99.	8.88	4.61	4.40	4.43	28	28	7.98	5.58
	Births	16,888	1,119	1,171	1,842	1,318	1,408	1,845	1,442	1,599	1,588	1,623	1,486	1,578	21
Females.	Females .   Deaths aged under one month	200	7	29	8	8	<b>\$</b>	3	25	æ	8	8	2	28	İ
_	Per Cent. of Deaths to Births	8.7	3.66	98,4	80.5	8	27.43	28	3.61	6.18	8.75	4.14	187	5.35	
77.	Births	8	•	1	61	•		89	•	4	7	•	•	2	•••
, m won 4 m O	Deaths aged under one month	88	<b>69</b>	•••		01	01	<b>69</b>	**	7	•	19	60	1	

. Still-births included,

Exhibit 5, previous page, shows the relation of decedents aged under one month to births, by months. It appears that 4.75 per cent. of the children born in 1880 died aged under one month, and that the per cent. among males is greater than among females.

## DEATHS OF CENTENARIANS.

over. The recorded facts concerning these decedents are given in Tuble IX. The cause of death of six out of the eight In 1880 eight persons—six males and two females are returned as having died at the remarkable age of one hundred years and was from old age, one from paralysis and one from consumption. Three were native-born and five were foreign-born.

TABLE IX.—Deaths Returned as having occurred in Michigan during the Year 1880 of Persons Aged One hundred Years and Over, Exhibiting certain Details concerning them included in the Returns.

NAMES			Married,		4	A68.		PLACE OF DEATH.	. Велти.	DATE OF DEATH,	4.TH,	Cause
CENTENABIANS, 1880.	BEK	Color.	or Widowed.	Birthplace.	Years.	Months	Occupation.	Town.	County.	Month.	Day.	of Death.
Susan Bigbone Fe	Female	Indian	Married	male Indian Married Michigan	103	01	Mat-weaver.	Harbor Sp's.	Mat.weaver. Harbor Sp's. Emmet August	August	-	4 Old Age.
John B. Bonneau Ma	Male	White.	Widower	116 White. Widower Canada	90		Not given		Marie Chippewa June	June	2	so Old Age.
Poter M. George	Male	White.	Single	sle White, Single Canada	104	-	sioner, war	Erin	sloner, war Erin Macomb May	May	8	Old Age.
Charlotte Hill Female. White. Widow Vermont	Female	White.	Widow	Vermont	104		House-k'p'r.	Reynolds	House.k'p'r. Reynolds Montcalm May	May	80	8 Old Age.
Kabacone	Male	Indian	Widower.	ale Indian Widower. Michigan	101		Not given	Buena Vista.	Not given Buena Vista. Saginaw April	April	2	16 Old Age.
Duncan McKay Male White. Single Scotland	Male	White.	Single	Scotland	ğ		Farmer		Farmer   Alcona   February	February	7	Old Age.
John P. Simpson	Z	White.	Widower.	ale White. Widower. England	90	Qŧ	Parmer Detroit Wayne December	Detroit	Wayne	December	a	Paralysis.
John Ganez M	Male	White.	Married	ale White. Married Ireland	<b>7</b> 0		Laborer	Laborer Detroit	Wayne December	December	3	9 Consumpt'n.

## DELINQUENT TOWNSHIPS,

Exhibit H shows the names of 19 counties representing over thirty townships from which no returns of deaths for the This number is not quite as large as in former years, and indicates some improvement in this respect; but there should be a report from every township in the State, and it is the duty of every supervisor and assessor to make such a report to his county clerk whether or not any deaths occur in his township. gear 1880 were received.

EXHIBIT H.—Counties and Townships from which no Returns of Deaths for 1880 were received by this Department, showing Population in 1880, by Sex.

															l		ľ
						Po	POPULATIOM,	TIOM,	SADD	H 1,	1880.						
8414-21100	TOWNSHIPS FROM WHICH NO RETURNS						٥	COLOR OR RACE.	R RAC	<u>ئ</u> م					Nativity.	ITT.	
	OF DEATHS FOR 1880 WERE RECEIVED.		TOTAL.			WHITE.		BLACK AND MULATIO.	ard Mai	ATTO.		INDIAN.		NATIVE	4	FORIGH.	, i
		Total.	Males.	Fe. males.	Total.	Malor.	Fe. males.	Total	Malos.	To.	Total. Males.		To To To	Males.	Fo.	Males.	na le
Total		12,897	7,737	6,160	12,525			18			\$			9,050	1,681	3	28
Alpena	Briley																
Cheboygan	Ellisab										i	i	i	1	i	-	i
	Detour	<b>43</b> 1	88	186	388			=		•	2	i	i	i	Ì	Ì	
Chippewa	Sugar Island	3	274	028	28			-	İ		174	<u> </u>	i	İ	İ	Ì	
	Superiorb									Ì	i	i	i	i	Ì	Ì	Ī
Delte	Baldwin	8	82	112	8					Ì	<u> </u>	i	$\dot{\parallel}$	i	i	Ì	Ī
•	Sack Bay	8	174	127	301					Ì	i	i	Ť	i	İ	Ì	i
Grand Traverse	East Bay	3	878	<b>8</b> 8	\$	878	<b>8</b> 8			Ì	i	i	i	8	217	8	\$
Haron	( Hume	886	497	#	886				į	i	<u> </u>	<u> </u>	<u> </u>	<u> </u>	i	i	i
	Verons	240	28	881	240					1	i		i	i	i	Ī	
Iosco	Plainfield	19	×	<b>33</b>	5					1	i	$\dot{\parallel}$	$\dot{\parallel}$	i	Ì	i	
Teabella	Gilmore	88	<b>3</b>	111	261					Ì	<u>-</u>	$\frac{\cdot}{1}$	$\frac{\cdot}{1}$	Ť	İ	İ	
	Sherman	88	8	176	2882					i	<u> </u>	i	i	i	i	İ	Ī
Isle Royal	All Townships	2	<b>2</b>	2	8	26	76				<u> </u>	i	1	18	9	22	<b>*</b>
Kalkaska	Springdeld	\$	242	108	\$	243	<b>8</b>			i	i	<u> </u>	-	8	88	2	R
Lake	EIR	35	123	23	355				i	-	<del>-</del>	-	-	i	i	İ	-
Leelanaw	Elmwood	3	93	182	487			_	-	i	_	_		_	i	i	

	[ Brevort	-									-	-	-	-			-
Mackinac	<del>-</del>	3	翥	97	\$					:	8	<u> </u>		i		i	•
	Lakefield								:	:	!	i		i		1	i
Marquotte	Richmond	260	97	310	730			i	-	:	:	- <del>:</del>	i		-		:
	Ingallston	196	119	8	195				:	;	:	i		i			
Menominee	Nadeau										-	i	i	:		:	•
	Stevenson	1,223	808	8	1,221			-		-		i			:		Ī
Montcalm	Ноше	1,982	1,276	98	1,981	1,276	8	-		:	i	i	:	976	621	2	*
Saginaw	Bridgeport	1,644	801	748	1,642	8	742	•		:		i	-	8	2	\$	8
Solve State Contraction	( Munising	270	174	8	210					i	8	i	i	1	i		i
Schoolerait	Onota	8	873	4	<b>4</b> 19			-		į	i	i		i		Ī	i
	[Liberty	109	8	\$	100			-	1		Ī	i	Ť	İ	i	.	i
Wexford	South Branchab											i	i	İ	Ī		i
	Concord	<u> </u>	8	88	121					T		Ī	İ		Ī	:	Ī

County Olerk says there were no returns of deaths from the supervisor.
 Organized since Census was taken.

## TOWNSHIPS IN WHICH NO DEATHS OCCURRED.

The townships, in which it is reported there were no deaths in 1880, represent a population of 16,230 and over. It is hardly probable that such townships as Spencer, in Kent county, with a population of 1,196, and Independence, in Oakland county, with a population of 1,386, had no deaths. Such cases should be investigated by the county clerks, and ascertain if possible whether the statement is correct or not. It is not safe to conclude because there is no report that there are no deaths.

EXHIBIT I.—Counties and Townships in which it is Reported that no Deaths
Occurred in 1880.

	Townships, No	Po	PULATI	on.		Townships, no	Po	PULATI	ON.
COUNTIES.	DEATHS IN 1880.	Total.	Males.	Fe- males.	COUNTIES.	DEATHS IN 1880.	Total.	Males.	Fe- males
Total		16,280	9,550	6,680	Mecosta	Martiny	687 192	394 184	291 55
Alcona	Curtis				Menominee	Cedarville	229	171	58
Alpena		244	172	72	Midland	Geneva Hope	237 455	159 242	79 218
Antrim	Kearney	306	170	136	midiand	Jerome Larkin	339 210	177 124	169 86
Вау	Mason	112	67	45		Ætna	<b></b>	<b> </b> -	
Charlevoix.	Boyne Valley	451	237	214	Missaukee	Bradforda   Caldwell   Forest	104 50	52 29	59 21
Clare	Wintersteid	273	168	105		Reeder	323 158	201 93	122
	Ball	66 85	88 45 86	28 40 68	Oakland	Independence	1,386	711	675
Crawford	Center Plains   Grove	154 166 80	97 56	69 24	Oceana	Colfax	185	115	70
	South Branch	192	104	88		Beaver Lake	122	91	81
Delta	Winona	78	43	35	Ogemaw	Edwards Foster	806 206	210 114	96 92
Emmot	Maple River	164	83	81	Ontonagon	Carp Lake	73	48	25
Iosco	Alabaster   Grant	266 174	148 105	118 69	Osceola	Middle Branch.	169	101	68
Kalkaska	Boardman	367	185	182	Oscoda	Atherton			
	Oliver Excelsion	168	96	72		Corwith	206 225	116 112	90 118
Kent	Spencer	1,196	649	517	Otsego	Elmira   Hayes   Otsego Lake	101 596	50 867	51 229
Lake	Glencoe	126 92	91 49	35 43	Presque I.	Bismarck Presque Isle	100	68 138	87 90
Manistee	(Bear Lake   Maple Grove   Springdale	777 97 102	438 50 61	839 47 41	Roscom'on	( Denton	210 214	162 196	48 18
Manitou	`	177	100	77	ASSOCIATION OF	Nester	284	228	6
Marquette.	(Negauneo	885	197	138	Saginaw	Lakefield Richland	198 700	104 877	89 328
maiquosto.	Forsyth	291	179	112	Tuscola	Wisner	326	178	158
Mason	Branch Summit Lincoln	400 887 140	277 224 84	123 163 56					

[•] Organized since Census was taken.

TABLE X.—Exhibiting, for the State and Counties, by Sex, the Number of Deaths Returned as having Occurred in Michigan

A F								Mon	MONTHS,	, 1880,	ó					_				₽₩	. X	AGES IN PERIODS OF	ERI	900		XE	YEARS, 1880	<b>88</b>	٠.			
AND COUNTIES.		YEAR, 1880,	January.	February.	Матср.	Aprill.	May.	Jane.	- July.	-JanguA	September.	October.	-	Хочетрет.	December.	Unknown. Under 5.	5 to 10.	101015.	15 to 20.	20 to 25.	-	25 to 30,	.68 01 08	35 to 40.	40 10 45.	45 to 50. 50 to 55.	.00 01 00	.60 to 65.	.07 of 68	70 to 75.	75 to 80.	100 00 00
	Total 16	16,102	800	1002	1149	9 1289	9 1166	6 1336		1527 178	1780 16	1676 1471		1486 16	1617 4	43 6433	1111		9 889	643 6	080	809	513	999	460	4614	416 474	4 557	2 204	268	200	
	Males	8,645	451	226	9 604	683	8 619		553	836 93	939 96	700	795 8	822	852 2	28 3519	162 61	_	304	306	316	895	245	2 095	235 20	264 241	11 209	9 330	0 334	335	296	
	Females	7,410	407	442	545	5 601	1 545	_	479 68	883	834 7	764 6	671 6	199	158	15 2872	9 523		284 3	347 3	364	333	268 2	2962	225 18	197 175	5 205	6 227	7 230	229	215	_
	Unknown	47	01	•	1		9	.04	*	20	-	10	10	00	-	-	9	1	1		Ť	;	Ť	1	i	1	1	1	1	1	1	1
	Total.	12	- 1	1		1		-0	-	-	- 04	-	-	-	=	-	-	90	-	+	-	-	1	T	-	-	-	-1		1	:	1
Alcona	Males	1	1	1	-	1		C+	-	-	01	+		-	1	1	60			+	-	1	1	;	-	- (	-	÷	- !	1	- 1	_
	Females.	9	i	1		1		80	-	1	1	1	-	7	-	-	-	-	+	-	:	-	İ	i	1	-	1		-	_ i_	1	1
	Total	310	18	16	55	25		19	61	24	7	75	27	77	8	- 24	126	10	-	15	21	9	6	10	10	21	9	22	19 10	16	=	_
Allegan	Males	153	6		10		15	- 00	13	133	87	=	18	138	138	144	82	10	-	6	9	80	10	10	10	9	4	9	=	9	-	
	Females.	157	Oi .	13	53		13	=	19	7	18	10	13	=	22	9	89	49	9	9	- 9		4	10	10	9	01	1-	-	9 10	*	
	[ Total	19	*		60	60	9	63	80	-	15	01	10	9	9	-	3	-	-	61	10	-	00	- 1	-	01	1		04		:	_
	Males	33	-	-	- 00			01	-	01	00	-	-	ю	00	-	18	-	-	C1	-		-	-1	-	-	:	-	-	1	1	_
Alpena	Females.	88	60	1		80	01	-	01	40	9	-	-	-	2		24		-	;	+	1	01	1	1	-	- 1		01	-	-	_
	Unknown	-		1	1	1	-	1	+	- 1	:	+	1	+	1	1	1	:	÷	+	+	i	i	i	+	+	1	1	+	1	1	
	[Total	40	9		60	_	60	60	-	04	14	-+	00	-	60	64	50	04	-	04	-	01	Ot	04	-	- !	-	04		01	01	-
Antrim Males	Males	66	63		01	-	1	60	80	-	00	Ç4	04	-	-	-	12	-	-	=	+	1	-	-	1	1	-	-		1	61	_
	Females	38	60	-	-		01	-	**		-	0	-	-	0	_	œ	-		-	-	c	-	-	-	-	-		_	_		_

TARLE X

								Ş	KTH	Моктнв, 1890	8.										46	AGES IN		PERIODS OF	80		YEARS, 1880.	<b>88</b>	20	٠.				
COUNTIES.	X M	YEAR, 1880.	January.	February.	March.	April.		May.	Jame.	·Ame	August.	September.	October.	Дочетрет.	December.	Unknown.	Under 5.	.01 of d	10 to 15.	15 to 20.	20 to 25.		25 to 50.	.68 of 08	35 to 40.	40 to 45.	.0č oz čž	.60 to 55.		20 10 60.	1 80 to 85.	.07 03 60 10.	,08 01 07	49 vo ban 08
	Total.	14	-		-	01		1	1	01	.01	1	-		10		90	1		-	1	-	-	-	31	-	;	1	-	-	_	- :	-	
Baraga	Males	7	1	1	-	1	- 1	+	1	-	01	1	-	1	00	1	40	1	1	-	- 1	1	-	+	-	1	- 1	1	÷		Ť	-1		+
	Females	7	-	1		-	01	+	1	-	1	1	1	1	61	1	.00	1		-	-	-	1	1	1	-	à	1	•	-	÷	+	-	1
_	Total	218	=	16	18		=	27	16	138	56	15	18	15	93	1	72	6		6	61	9	-	10	9	9	10	-	-	o	6	22	10	20
Barry	Males	100	00	-	7	10	00	15	10	*	=	16	1	7	15	1	62	-		60	7	01	64	69	-	00		9	7	NO.	03	-	-	22
	Females.	118	6.3		0 11	13	00	21	=	6	15	00	=	11	90	:	8	01		10	10	*	10	90	10	60		_	99	*	9	00	-4	6
_	Total	393	88	61	33		68	10	8	98	2	=	33	40	8	-	653	88		21	21	9	=	6	21	13	10	_	0	60	9	6	40	Q1
	Males	933	=	16	9 18		18	00	=	23	8	27	81	26	7	-	128	22		19	60	10	143	40	9	00		9	9	00	-	10	1	00
58y	Females	170	0		20	10	12	-	13	=	98	17	120	11	16	1	6	77		-	0	10	9	4	9	*	_	_	99	1	00	*	01	21
	Unknown	-	1	1	1	1	÷	1	-	i	i	1	1	1	1	1	_	1	1		+	+	i	1	1	1	1	1	1	1	÷	÷	+	+
	Total	47	i	_	_	-	-	-	00	49	1	10	7	9		-	81	-			00	4	-	01	04	01	_	_	01	-	-1	1	-	01
	Males	61	- }	-	64	-	-	-	01	04	*	60	1	60	-	-	9	1	1		-	-	-	-	1	41		_	-	-	1	1	_	-
Bengle	Females	24	1		D4	_	+	1	10	00	92	61	10	60	i	1	=		1	-	01	60	1	-	64	1	1		-	1	+	+	_	-
	Unknown	01	1	1	1	1	1	1	-	1	T	1		1	1	1	01	1		- 6	+	÷	i	1	-		1	1	+	1	1		1	-
	Total	331	83	11	1 56		53	65	18	13	38	8	88	18	30	1	138	19		8	-	61	16	6	6	00	10		52	=	=	12 13	350	6 0
Berrien	Males	203	10		10 12	13 1	13	17	10	55	19	19	95	18	16	1	88	10	-	-	7	9	9	9	200	*	00		10	90	90	7 11	22	3 6
	Females.	133	13		7	13	-	15	00	10	16	10	01	13	77	-	52	6		_	1	9	10	80	9	4		04	00	00	00	9	01	2

	[Total	202	18	13	81	24	25	18	91	27	82	27	18	140	-	_			_	_				00	12	101	121 5	6 18	9	19	9
	Males	133	00	60	7	16	=	6	0	-	18	15	00	_			9		00		00			01			00	3 15	6	6	40
branch	Females.	118	00	.0	90	00	12	0	91	0	10	21	00	9	1	31		9				3	21		99	+	_	09	10	-	01
	Unknown	-	1	-	-	İ	i	4	+	1	1	i	1	1	1	-	1	1	1		1	1		+	1	+	÷	- 1	- 1	1,	
	(Total	38	17	16	27	55	88	8	83	\$	100	**	9		177		7 1		13							1 2	11 27	81	83	=	55
1 20	Males	185	9	7	16	6	10	15	8	24	5	-	25	10	60	=	90	9	_	10	- 00	=	9	00	2		7 18	8 14	13	-	9
Calnoun	Females.	169	00	0	=	15	138	13	22	22	10	11	19			01	*						10		-	-	7 9	S	6	+	10
	Unknown	1	1	1	1	-	1	-	1	63	1	1	C.	i	-	9	1	!		:	1	1		1	1	:	+	1	1	1	-1-
	Total	163	10	10	6	21	=	18	15	5	7	2	16	=	-								00				4	4 19	30	00	
	Males	88	10	64	9	90	9	9	1-	10	10	co	23	_		56	-	01	01	80	01	0		-	-	20	60	3 7	9	10	01
	Femalos.	26	CI	92	00	9	*	2	90	=	*	=	*	_	_								*			-	01	1 5	64	60	01
	Unknown	-	1	i	1	1	-	i	Ť	i	i	i		1	-	-	1	+	•	-	1	1	-			1	+	1	1	1	1
	[Total	17	1	7	-	-	0	69	9	10	*	00	10	60	1			_		01	1	1		-	-	;	90	64	04	-:	04
Charlevoix   Males	Males	27	1	1	1	-	90	-	40	95	*	9	1	_	-	18	01	-	-	-	1	1	-	_			04	_	-1	:	1
	Females.	7	1	i	-	:	04	~	-	Q1	1	01	*	H	-					-	1					1	-	-	64	1	-
	Total	90	C+	1	10	80	60		6	-	04	99	60					01	04	-	-	-	00	-	-	1	00	:	-1	-	00
Cheboygan   Males	Males	15	01	1	7	-	01	*	*	90	-	60	64	+	-	91	64			-		-				1		:	- 1	-;	1
-	Femalos.	23	1	1	+	C.	-	1	10	7	-	1	1	_	-	9		-			1	1	00	1	1	1	-	1	114	н	60
	Total	8	60	-	01	60	-01	10	03	4	60	60	1	-	-	17	80	-	1	C1	:	-	_			1	_	01	- 1	:	.04
Chippewa	Males	13	*	-	1	-	C+	80	-	60	1	-	1				01	1		01	-	1	_	1	_	1	+	1	1	:	CI
	Femalos	16	01	1	e.	04	;	01	-	-	80	01	1	_	-	=	-	-	1	1	1	1		-	4	1	-	01	:	ì	1
	Total	69	04	00	9	10	10	-	10	4	00	0	10	*	1	5		6	10		9	-	-	-	1	1	1	1 00	64	1	
Clare	Males	8	7	61	00	00	-	4	00	04	-	:	00	01	-		90	9		0+	-		-		1	1	_	01	:	1	
	Females.	40	-	-	90	9	*	00	-	64	4	0	64	64	7	17			-	1	-	1		-	1	1	-	-	04	Ť	
	Coknown.	7	T	T	ī	÷	Ť	Ť	Ť	÷	÷	+	I	i	+	÷	Ļ	+		T	1	+	•	+	_	+	÷	Ţ	1	Ť	_
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TABLE X.—Continued.—Deaths by Counties, by Sex, by Months, and by Age, 1880.

				,		•	F	MONTHS,	rhB,	1880.									7	AGES	H	Periods of	900		YEARS,	R6, 1	1880.					
COUNTIES.	ON MA	YEAR, 1890.	January.	February.	March.	April.	May.	June	July.	August.	September.	Осторот.	Мотеть Кол	December.	Unknown.	Under 5.	2 to 10.	10 to 12.	12 to 50.	20 10 25.	25 to 30.	30 to 85.	35 to 40.	.6b ot 0b	45 to 50.	.66 to 55.	55 to 60.	1 60 to 65.	1 65 to 70.	1 70 to 75.	75 to 80.	Unknown.
	[Total	191	10	9	10	9	=	49	20	26	20	19	19	24	1	63	14	6	9	10	6	۵	10	9	6	*	51	4	00	10	-	-
	Males	84	1	9	-00	*	_	01	2	13	13	=	12	=	1	35	4	4	4	6	7	64	4	60	10	04		6 2	9	20	63	64
Cilbron	Females.	96	20	-	-	9	7	60	10	14	15	90	7	9	1	27	10	10	6	10	10	80	9	00	*	64		6	04	OI.	4	:
	Unknown	1	1	i	- 1	!	1	1	1	1	-	1	1	1	1	-	1		1	1	1	1	1	1	1	1	1	1	1	÷	+	
	Total	*	1	1	-			-	-	-	į	1	- }		1	-	1	1	-	-	1	1	1	i		1	-	. 1		寸	+	-
Crawford   Males	Males	60	- 1	7	1	1	1	-	-	-	1	U	- 1	1	1	•	-	1	1	- 1	1	1	7	1	1	1	:		:	÷	:	- 1
	Females.	1	1	i	1	1		1	i	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	i		1	- (	÷	1	_
	(Total	9	00	00	7	00		99	69	18	2	04	9	00	1	85	10	1	1	01	10	01	-	04	-	i		. !	-	1	-	_
Delta	Males	40	01	-	-	-			9	6	0+	04	9	-	1	19	-	1	-	Ġŧ.	00	-	-	04	-	1		1	-	1	-	_
	Females.	08		01	1	QI	1	-	**	4	93	1	-	~	1	6	4	1	93	1	.04	1	~	i	1	1	1	1	1	÷	+	_
	Total	275	15	.63	98	=	80	20	16	30	150	20	54	88	1	101	16	10	15	15	7	Q	6	13	10	NG.		8 13	91	10	15 16	
100	Males	152	90	7	18	6		9 12	-	18	13	11	15	18	1	20	00	4	9	0	*	01	7	20	7		_	0	15	9	9 9	-
Eston	Females.	199	7	=	00	64	7	80	6	12	13	90	6	21	1	20	90	7	.0	7	03	50	91	04	9	20		4	4	-#	6 7	-
	Unknown	-	1	1	1	d	1	1	1	1	-	1	1	1	1	7	1	1	1	1	1	1	1	i	1	i	1	1	-	÷	1	_
	Total	85	_	7	-	6		.60	10	80	1	30	80	9	1	62	01	7	04	*	60	-	i	1	-	j	_	01	-	i	-	i
Emmet	Males	49	-	4	91	9	-	04	-	10	40	*	10	-	1	23	G1	1	1	01	-	-	1	-	-	1		-	-	÷	+	_;
	Females	85	1	63	10	60		65	60	60	61	*	***	G.	;	16	T	-	61	C4	01	1	1	1	1	1	1	-	1	+	-	-:
	Total	326	18	=	81	88	98	3 14	22	88	88	36	43	88	1	103	25	13	15	20	90	9	11	13	15	=	10	15	52	=	18 15	-
Genesee	Males	169	6	-	=	13	13	80	13	18	17	98	88	13	1	83	11	60	C.	1	-	C.	9	9	6	*	_	8 7	9	=	12 7	_
	Females.	157	0	-		13	13	8 6	1	20	=	16	15	25		40	=	10	13	13	*	*	00	7	*	7		60	7	-	80	-

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	Males	04	-	1	1	1		-	1	1		i	1		-	CI	1	-		_		- 1	-	-	÷	i	ī	:		i	-	-	_:	
Gladwin }	Females	*		1	1	-	1		1		_	-	_			60	-	i	j	1	_!	- 1	- :	-:					_	_	_	_	_	
_5	Unknown	7	1	-	1	1	. 1	1	1	1	1	1	1	1	1	-	1	- 1	- 1		+	1	1		÷	i	1			_	+	1	-	
1	Total	2	-	60	-			-						9	:	1	10	-		01	1-	-	-	00	Q1	04	-	-	60	-	-	-	-:	
Gr. Traverse- Males	Males	20	1	64	64	-			-	01	30	*			_				1	-		:	-	-	61	61	- 1	-	-	1	1	+	÷	
-5	Females	81	T	-	-	_	1		-		*	-		+	1	7	64	i		Q¥.	*	-	1	C4	i	:	-	1	C)	1	-	-		
1	Total	154	7	903					10 10		_	1 10			_		100				9	*	10	-	02	-	60	6	6	60	- 10	01	60	
Gratiot Anales	Males	8	1-	10	80	9		-		9	4	13		10	7	81	9	2		10	20		C1	1	-	1	01	9	1	-	-	-	20	
5	Females.	74	-	03						13					=	-	80		0		00	-	00	-	09	1	-	00	G4	64	4	-	00	10200
-	Total	248	16	81											_				7 1		=	10	100	*	0	=	10	2	21	8	_		- 12	
Hillsdale Males	Males	134	9	14	9	8	8		7	13	11 2	20 13		10	16 1	35			01	9	05	9	01	60	10	*	1	01	00	9	9	-	71	
5	Females	114	10	80		00	-	13							00	8	60			10	80	4	*	=	+	-	64	10	4	00	-	10	1	
6	Total	238	18	80		24		*			63	55			34 1	199	-		-	0	00	6	-	9	80	- 40	7	04	60	61	01	-	-	-
1	Males	165	7	1	10				10	23		12 17		13	77	102	-		0	10	9	00	9	*	*	00	9	-	64	-	-	-	-	60
Houghou	Females.	133	*	-	*	7	-	9	100		30				20	97	7			10	01	100	-	01	-	0.5	-	-	-	-	-	100	1	20
1	Total	160	00	7	15			9	-		2				98		12			-	6	9	10	00	*2	64	*	00	*	-	*	69	60	
_	Males	78	01	00	9	13		80	9	6			-	=	2	45			-	-	O1	69	00	01	04	61	-	6	-	-1	90	24	64	
Haron	Females	11	9	9		*		80							16		80			9	63	-	01	-	60	1	1	-	63	-	-	-	-	
=	Unknown	10	1	1	1	1	1		1		1	-	1		.:		1	1	1	+	+	-;-	÷	1	1	1		1	:		:	-	+	
1	Total	245	55	0	=							-			:	8	15		- 33	-	13	22	00	7	10	=	=	0	12	00	9	6	14	85
	Males	123	co.	100	2	=		10	-	6	12	21	14	=	14	47	2		20	90		4	01	Q1	1	*	7	2	9	50	00	*	9	7
Inguam	Females	121	60	*			1 9						7		7			7	10	9	10	6	9	9	*	7	*			20	00	10	*	65
=	Unknown	-	i	į	1	-	1	1	-	1	1	-	1	1	+		1	i	-	:	+	1	1	i	1	-	1	1	:	1	:	1	÷	

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							M	MONTHS,	18, 1	1880.					-				40	AGES IN		PERIODS OF	0 80		YEARS,	, 1690.						
COUNTIES.	9RX.	YEAR, 1950.	January.	February.	March.	April.	May.	Jame,	July.	August.	September.	October.	November.	ресешрет.	Unknown.	Under 5.	5 to 10,	10 to 15.	15 to 20.	20 to 25.	25 to 30.	30 to 35.	85 to 40.	40 10 45,	45 to 50.	50 to 55.	.09 oz 66	60 to 65.	70 10 75.	1 75 to 80.	So and over.	Unknown,
	[Total	287	13	16	20	26	88	54	83	88	31	61	6	20	-	16	14	-	Ξ	6	16	6	01	-	10	13	23	15 17	15	1	17	63
	Males	134	9	6	14	12	10	12	14	14	14	00	0	=	-	43	6	-	10	G4	0	60	09	01	10	49	*	9	6 11	00	13	_
Tours Tours	Females.	151	7	7	9	11	18	15	11	83	17	14	13	6	-	69	10	9	9	t+	1	9	00	0	1	90	00	11 01	*	9	7	_
	Unknown	04	-	1	1	1	1	-	1	01	1		1	1	1	01	÷	÷	÷	÷	+	÷	+	÷	÷	1	1	+	1	1	1	:
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10860	Males	19	1	64	01	60	1	Q1	00	63	1	64	-	1	-	6	-	:	-		÷	1	1		+	+	1	+	-:	:	:	04
	Females	50	QI	1	1	~	04	1	Q4	4	-	64	93	-	1	7	÷	÷	1	-	-	-	T	-	-	1	1	-	-	;	1	:
	Total	166	00	00	5	14	11	13	30	18	25	18	16	16	-	23	19	16	10	00	4	00	4	*	00	01	00	10	61	64	ю	10
bella	Isabella Malcs	93	00	*	iO	9	*	7	10	14	==	=	7	F	61	63	10	0	Ç1	9	G4	-	1	00	;	04	01	61	53	64	4	••
	Females.	73	40	4	7	10	7	20	80	4	10	1	5	40	10	30	6		60	Q4	01	01	4	-	60	1	-	00	- 64	-1	-	C4
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	f Total	326	14	19	83	55	27	19	98	33	37	27	88	68	-	110	21	00	10	œ	10	90	19	9	10	18	67	11 19	1	83	16	04
ckson	Jackson Males	180	6	13	18	16	17	90	10	16	19	9	13	5	-1	61	90	4	46	10	*	-	90	9	01	71	4	7 10	2	7	10	C4
	Females.	146	10	9	1+	18	10	11	16	11	18	1	13	18	;	24	*	*	9	00	9	-	=	20	00	*	00	9	-	00	9	
	Total	2883	255	30	31	89	23	25	89	47	53	53	25	26	00	16	13	25	12	18	15	17	10	98	19	11	2	26 20	13	15	56	1
lamazoo	Kalamazoo   Males	204	10	16	18	17	15	6	81	88	65	7	13	11	64	26	6	00	90	00	7	00	=	6	10	6	10	11	9	10	12	9
	Females.	178	13	14	13	12	=	15	17	19	12	12	12	15	F	4	-	0	7	10	09	0	*	=	G	00	4	15 8	6	2	=	_

Kalkaska   Maloa  Totsi  Kent   Females		10	_					7			-	1																				
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		845	45	2	46	78	67	47	74	8	8	88	96	88	- 1	320	66	720	40	00	23	88	98	95	24		8	38	32 29	88	6	55
<u> </u>		448	77	22	23	37	85	88	89	2	45	6	20	4	-1	166	49	19	55	15	11	16	10	10	91		10	65	24 17	15	17	15
	Females	396	15	19	21	=	35	19	35	45	45	37	9	41	-1	153	20	18	18	17	14	12	16	1	20		01	138	8 15	13	64	17
Unknown	пмог	-	Ţ	1	1	1	1	1	- 1	i	1	1	1	1	1	~		- 1	1	1.5	1	1	11	-	1		1	1	1	1	1	
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TABLE X.—Continued.—Deaths by Counties, by Sex, by Months, and by Age, 1880.

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ė.	'JsnSny	93	47	46	124	16	=======================================	-	-	1	31	15	16	- 1	8	52	64	
MONTHS, 1880	-Sing	120	56	8	17	11	9	01	01	1	22	00	G	1	36	8	13	,
MTH	Jame,	63	23	8	35	7	4	1	1	1	13	2	7	1	59	15	14	
â	May.	53	53	50	6	10	4	-	H	1	77	11	93	i	- 23	7	8	-
	April.	19	60	7	16	10	9	н	1	+	61	0	13	-1	150	7	21	,
	Матећ.	20	52	65	17	13	*	- 1	1	1	10	G	10	1	58	14	14	
	February.	19	8	55	139	15	-	-	H	1	100	9	9	-	22	00	-	
	January.	92	:3	41	9	10	-	1	1	1	10	-	00	1	7	9	100	
	XEAR, 1880.	783	406	377	206	124	83	9	9	1	808	101	101	90	414	515	961	9
	noot arak					-			•	Î		•	<u>-</u> ;	p p			•	_
	SEX.	Total	Males	Females	Total	Males	Females	Total	Males	Females.	Total	Males	Females	Unknown	Total	Males	Females	
	COUNTIES.		Saginaw Males		•	Sanilac   Males		٠.	Schoolcraft.   Males		<u> </u>		Sniawassee		_		St. CIRIT	

Tuscola   Total 20 Tuscola   Males 10   Females 10   Total 21   Van Buren   Males 11	134		1 2	0		-	_	_		_		:					•		>		,	•	•	9	•		2		5	
Total Females Total					9		6	10 14	53	10		13	-	36	7	9	9	7	00	9	4	9	4	10	4	0	6 5	7	10	1 00
Males Females Total													_				3				- 1	0			_					
Males Females Total		<b>3</b> 4	6	9	9	17	7	18	36	57	61	7	1	8	*	14	12	6	00	+	9	0	04	9	•	00	2 2	00	00	:
30 - 31 - 21		9	9	1	90	7	10	20	6	6	13	53	1	25	0	9	7	*	00	<b>G4</b>	п	00	1	-	04	63	4 63	9	00	
		20	63	00	8	01	10		9 7	13	90	82	1	30	0	00	=	9	4	G1	90	01	01	9	01	<u>-</u>	7	61	10	
	,	=	15	16	91	1	11 19	81	8	19	19	15		78	10	02	:	21	=	90	6	9	4	4	10	=	8	10	25	01
	116	00	9	4	01	=	7 19	15	2 15	=	21	10	1	41	00	-	00	10	-	60	10	01	-	01	04	10 10	4	4	-	04
Femalcs.	92	00	6	15	9	6	4	7	10 10	8	-	10		53	01	01	00	7	10	10	4	*	63	01	20	4	-	-	10	
(Total	341	55	50	19	1 1	10	11 32	65	47	45	88	4	-	90	6	1-	a	19	11	10	16	=	12	=	23	12	55	27	13	-
	188	27	12	0	16	90		18 17	7 28	24	16	64	17	53	*	*	04	10	2	49	0	4	9	-	9	00,	8 19	25	24	Z1
Washtenaw.4   Females   15	152	03	01	10	90	01	7 14	12	2 10	50	12	83	-	36	9	60	7	6	9	10	7	1	9	*	9	19	5 14	7	=	-
	-	1	1	1	1	1	1	1	1	-	1	1		п	1	1	1	1	1	1	1		1	1	1	+	1		1	-1
[ Total 2,43	137 13	155	171	919	210 16	103	174 271	1 219	913	9 179	203	251	00	144	126	20	69	101	88	68	88	10	20	7.4	99	50 75	5 68	95	75	93
Males	357	8	96	117 111	118	92 10	101	0 122	2 113	38	111	150	01	662	65	35	55	50	41	53	45	100	20	45	50	43	42	65	85	43
Wayne	620	74	75	102 8	91	7	121 87	1 97	7 106	8 81	8	101	-	481	61	19	150	82	47	33	43	66	50	8	139	26 3	83 25	27	57	49
Unknown	-	1	1	1	-	1	1	1	1	1	i	1	4	1	1	1	- (	-1	- 1	i	ł	:	1	;	1	1	1	1	1_	:
Total	68	-	-	9	C4	6	9	18	9 11	60	7	10	1	51	9	6	63	Н	ю	-	01		01	п	- 1	:	- 1	1	-	60
Males	17	-	+	G9		10	1	9	9	1 9	63			98	1	9	_}	- 1	-	-1	61	1		-1	1		G4 :	:	-	64
Wextord   Females	47	102	- 1	4	01	4	01	61	80	61	*		9	22	9	4	63	-	*	ri	1	:		7	1	1	1	1		-
Unknown	+	1	1	;	+	1	1	1	1	1	1	_		-	1	1	1	1	1	Ť	1	1		1	1	÷	+	- 1	1	- ;

# COLOR OF DECEDENTS IN MICHIGAN.

TABLE XI.—Deaths Returned as having occurred in Michigan during the Year 1880, distinguishing the Color by Number and Proportion of each Sex; and, by Sex, the Per Cent. of Decedents of each Color to Total of All Colors; the Per Cent. of Inhabitants of each Color to Total of All Colors; also the Per Cent. of Decedents to Inhabitants.

COLOR.	SEX.	Population June 1, 1880.	Number of Deaths Returned.	Per Cent. of Deaths of each Sex to Total of Both Sexes.	Males to 100 Females.	Per Cent, of Deaths of each Color to Total of All Colors, by Sex,	Per Cent, of Inhabit- ants of each Color to Total of All Colors by Sex, June 1, 1880.	Death rate, - Per Cent, of Deaths in 1880 to Population
	[ Total	1,624,040	16,102					,99
202035	Males	b 854,618	8,645	53,85	116.67		*******	
All Colors	Females	769,422	7,410	46,15				
	(Unknown		47					
	[ Total	1,602,035	15,790			98,06	98.65	.99
	Males		8,490	53,87	116.77	98,21		
White	Females		7,271	46.13		98.12		
	Unknown		29			61.70		
	[Total		96			.60		
Black	Males		55	57,29	134.15	.64		
	Females		41	42.71		.55		
	Total		55			.24		
Mulatto	Males		22	40,00	66.67	.25		
	Females		33	60.60		.45		
	[Total	6,895	134			.83	.42	1.94
Indian	Males		71	52,99	112.70	.82		
	Females		63	47,01		.85		
	Total		27			.17		
The Landson	Males		7	77.78	350,00	.08		
Unknown	Females		2	22.22		.03		
	Unknown		18			38,23		
	(Total	15,082	151			.94	.93	1.00
Black and Mulatto	Males		77	50.99	104,05	.89		
	Females		74	49.01		1.00		

a Population represented by returns of deaths in 1880.

Many interesting features in Table XI. must be omitted because of the incomplete statistics of the population by the United States Census. But much that is valuable still remains, from which it appears that over 98 per cent. of all the deaths returned as having occurred in Michigan in 1880 were white persons. The last column of the table shows the death-rate among the different colored inhabitants. It is seen that the largest death-rate is among

b Includes 28 Asiatics.

the Indians, the next being among the Black and Mulatto, while the rate among the white people is the same as that for all colors. The color of decedents by counties can be studied in Table XII.

TABLE XII.—Exhibiting, by Number and by Sex, for the State and Counties, the Color of All Persons Returned as having Died in Michigan during the Year ending December 31, 1880.

	ALL	Согов	s,—188	0.		Wnit	E.		BL	AC	к.		IU-		INI	MA	N.	UN	KN	OW	N.
STATE AND COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Femules.	Unknown.	Total.	Malcs.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Tribnoun
State	16,102	8,645	7,410	47	15,790	8,490	7,271	29	a 96	55	41	b 55	22	33	c134	71	63	27	7	2	1
Alcona	12	7	5		12	7	5			-											-
Allegan	310	153	157		304	150	154		2	2		1		1	2		2	1	1		ŀ
Alpena	67	31	35	1	67	31	35	1													1.
Antrim	40	22	18		38	22	16								2		2				1-
Baraga	14	7	7		6	5	1								48	2	6				1.
Barry	218	100	118		217	100	117		1		1										
Вау	393	222	170	1	380	215	164	1	1	1		1	1		11	5	6				1-
Benzie	47	21	24	2	46	21	23	2	1		1			-						-	1-
Berrien	334	202	132		328	196	132		3	3								3	3		
Branch	252	133	118	1	251	133	117	1	1		1										1.
Calhoun	361	185	169	7	354	183	167	4	4	2	2			4				3			1
Cass	163	86	76	1	150	80	70		4	3	1	8	3	5				1			
Charlevoix	41	27	14		36	23	13								5	4	1				
Cheboygan	50	27	23		50	27	23								M- 4-						
Chippewa	29	13	16		19	9	10								e 10	4	6				
Clare	69	28	40	1	68	28	40			_	_							1			1
Clinton	191	94	96	1	190	94	96				_							1			1
Crawford	4	3	1		4	3	1														ļ.,
Delta	60	40	20		59	39	20											1	1		
Eaton	275	152	122	1	275	152	122	1													
Emmet	82	49	38		41	25	16								41	24	17				
Genesee	326	169	157		320	166	154		4	2	2	2	1	1							
Gladwin	7	2	4	1	7	2	4	1											_		
G'd Traverse.	42	20	22		42	20	22							_	,						
Gratiot	154	80	74		154	80	74						_	_					_		
Hillsdale	248	134	114		247	134	113					1	_	1		_					
Houghton	298	165	133		296	165	131			_		1		1				1		1	

^{• 3} males, 2 females "Colored."

• 1 female "Octoroon."

• 1 male and 1 female % Indian, 13 males and 11 females White and Indian, 1 female % Indian, and 1 male "Bed."

• 1 male and 1 female % Indian, 1 male and 1 female White and Indian, and 1 female % Indian.

• 2 males and 5 females White and Indian.

TABLE XII.—CONTINUED.—Deaths by Counties, by Color, and by Sex.

	ALL	Color	s,—188	0.		WHIT	E.	J	BL	AC	κ.		U-	o.	Ini	)IAI	N.	Un	EN	ow:	N.
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Thknown
Huron	160	78	77	5	155	78	77						_					5	_	_	-
Ingham	245	123	121	1	243	122	120	1	1	1		1		1							
Ionia	287	134	151	2	285	132	151	2	****			1	1					1	1		
Iosco	39	19	20		89	19	20			.1		- 0									
Isabella	166	93	73		165	92	73					- 2			1	1					
Isle Royals												- 5				1					-
Jackson	326	180	146		822	177	145		b 3	3	-	- 4						1		1	L
Kalamazoo	882	204	178		872	199	173		c	3	2	5	2	3							
Kalkaska	17	10	7		17	10	7				_										-
Kent	845	448	396	1	837	446	391		b 5	2	3	2		2				1			
Keweenaw	72	89	82	1	72	83)	32	1												_	
Lake	26	16	10		26	16	10													3	
Lapcer	239	144	95		231	142	92					d 4	1	3	1	1					
Leelanaw	97	51	46		88	49	39							J	9	2					
Lenawee	870	190	179	1	364	190	173	1	1		1		_	5							
Livingston	169	74	94	1	168	74	93	1	0 1		1										
Mackinac	33	22	11		16	11	5								117	11					
Macomb	256	138	118	-	256	138	118							Ü							L
Manistee	92	56	36	-	92	56	36														
Manitou	11	5	6		11	8	6														1
Marquette	834	190	144		834	190	144					1				-					-
Mason	97	60	87		80	55	34					1			8	5	3	-		-	-
Mecosta	156	88	68		150	84	66		1	1		5	3	2	Ü	Ö					-
Menominee	127	100	27		127	100	27				-							1	-	-	-
í	94	56	88		94	56	38	1		-		- 1				-		-	7	*	-
Midland	11	6	4		11	6	4	1	***	-		1		**		-		****	-	77	
Missaukee	360	194	166	1	360	194	166				T	- 1	"			"	Ιİ	****			1
Monroe	1	168			819	168	151	-	****	-			-	-	****			****	-	-	-
Montcalm	319		151				140		****			2	1	-				****	*-	**	
Muskegon	288	147	141		286	146			****			- 0		1	E 3	3	Ιİ		-	**	-
Newaygo	168	87	81	-	164	84	80			-		1		1	2.0	- 0			-	**	
Oakland	330	180	147	8	824	178	145	1	3	1	2	1		-		3		2			2
Oceana	181	75	56	1	130	75	55	**	••••		-					8		****			
Ogemaw	16	9	7	!	16	9	7				-	- 1				-		****			-
Ontonagon	40	24	16	í	40	24	16					*		7				••••			-
Osceola	166	83	83		164	81	83					*				2		****			

a No returns from county clerk to State Department, female "Colored." 4 1 female "Octoroon." 1 female "Colored." all males White and Indian. 5 1 male "Red."

c 1 male and 1 f 10 males and 5

TABLE XII.—Continued.—Deaths by Counties, by Color, and by Sex.

	ALL (	COLORS	,—1880	٠.		WHIT	e.		BI	ACK		LA	TTC	٥.	INI	DIA:	N.	UN	KN	ow	¥.
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Malcs.	Females.	Total.	Males.	Females.	Traknown.
Oscoda	2	1	1		2	1	1	Ξ.					_								
Otsego	5	2	8		5	2	8										ij				
Ottawa	354	187	165	2	851	186	164	1	2	1	1						0	1	_		1
Presque Isle.	24	15	9		23	14	9											1	1		L.
Roscommon.	16	11	5		16	11	5											****			_
Saginaw	783	406	877		768	400	368		3		3				12	6	6				-
Sanilac	206	124	82		206	124	82														_
Schoolcraft	6	6			6	6															-
Shiawassec	208	101	104	8	206	101	104	1										2			:
St. Clair	414	212	196	6	414	212	196	6								١					
St. Joseph	244	110	134		242	110	132		1		1	1		1							-
Tuscola	206	105	101		206	105	101														-
Van Buren	211	116	95		207	314	93					4	2	2		٠.					
Washtenaw	841	188	152	1	329	183	145		10	4	6	2	1	1							-
Wayne	2,437	1,857	1,079	1	2,890	1,325	1,064	-	39	26	13	7	5	2	1	1					•
Wexford	89	41	47	1	88	41	47	1										1			1

# NATIVITY OF DECEDENTS IN MICHIGAN.

The nativity of decedents in Michigan and the numbers and percentages of those who died for each of the years 1876–1880, are shown in Exhibit 6. The average per cent. of native-born decedents for the ten years ending with 1880 is 79.92, while the average for foreign-born decedents, for the same period of years, is 17.08 per cent. It is scarcely necessary to observe that the class called "native-born" contains most of the infant mortality, and a large proportion of the deaths of children, among whom the death-rate is much larger than among those in middle life, to whom the foreign-born population largely belongs. Again, this term "native-born," is losing much of its significance from year to year, as the foreign population becomes assimilated with the native.

EXHIBIT 6.—Nativity of Persons Returned as having Died in Michigan during each of the Years 1876-1880, inclusive, showing the Number and the Per Cent. which the Native and the Foreign-born Decedents are of the Total of All Nativities, and the Average Number and Per Cent. for the Ten Years ending with 1880.

NATIVITY	DEA 18		DEA 18	тна, 77.	Dea 18	тпв, 78.	DEA 18	тнв, 79.	DEA 163	тпв, 80.	Av. for ending 18	with
OF DECEDENTS.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Total.	Number.	Per Ct. of Tetal.
All Nativities	12,576	100.00	12,919	100.00	12,766	100.00	14,407	100.00	16,102	100.00	18,062	100.00
Mative	10,147	80.69	10,305	79.77	10,183	79.77	11,495	79.79	12,572	78.08	10,439	79.92
Poreign	2,078	16.52	2,251	17.42	2,237	17.52	2,458	17.06	2,962	18,40	2,231	17.08
Unknown	851	2,79	368	2,81	346	2.71	454	3.15	568	3.52	392	8.00

TABLE XIII.—Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of all Persons Returned as having Died in Michigan during the Year ending December 31, 1880.

	ALL 3	NATIVI	ries, 1	880.		NATI	VE.			Forei	GN.		U	NEN	own.	
STATE AND COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown,	Total.	Males.	Females.	Unknown.	Total.	Males.	Femsles.	1
State	16,102	8,645	7,410	47	12,572	6,615	5,912	45	2,962	1,708	1,254		a568	322	244	
Alcona	12	7	5		6	4	2	.,	6	3	3					
Allegan	310	153	157		268	129	134		43	21	22		4	3	1	
Alpena	67	31	35	1	54	26	27	1	10	4	6		3	1	2	-
Antrim	40	22	18		30	14	16		9	7	2		1	1		1.
Baraga	14	7	7		11	5	6		2	2			1		1	
Barry	218	100	118		192	84	108		. 21	15	9		2	1	1	1.
Bay	393	222	170	1	310	174	135	1	69	40	29		14	8	6	
Benzie	47	21	24	2	38	16	20	2	7	4	3	1	2	1	1	1.
Berrien	334	202	132		274	167	107		53	33	20		7	2	5	
Branch	252	133	118	1	226	117	109		20	11	9		6	5		
Calhoun	361	185	169	7	303	157	139	7	28	14	14		30	14	16	1.
Cass	163	86	76	1	149	79	69	1	11	6	5		3	1	2	
Charlevoix	41	27	14		81	23	8		10	4	6					1.
Cheboygan	50	27	23		35	20	15		15	7	8					1.
Chippewa	29	13	16		23	10	13		4	3	1		2		2	
Clare	69	28	40	1	59	25	33	1	5	2	3		5	1	4	1.
Clinton	191	94	96	1	171	89	81	1	20	5	15					١.
Crawford	4	3	1		3	9	1		1	1						1.
Delta	60	40	20		42	25	17		17	14	3		1	1		1.
Eaton	275	152	122	1	257	140	116	1	10	6	4		8	6	2	1.
Emmet	82	49	33		76	44	32		5	4	1		1	1		1.
Genesee	326	169	157		290	150	140		35	18	17		1	1		1.
Gladwin	7	2	4	1	5	2	3		1		1		1			1
Gr. Traverse	42	20	22		36	15	21		6	5	1					1.
Gratiot	154	80	74		127	62	65		20	13	7		7	5	2	1
Hillsdale	248	134	114		221	118	103		18	12	6	1	9	4	5	
Houghton	298	165	133		227	120	107		62	41	21		9	4	5	1
Huron	160	78	77	5	116	51	60	100	42	25	17		2	2		1.
Ingham	245	123	121	1	0.00	110	106	1	28	13	15					1.
Ionia	287	134	151	2	242	115	125	2	38	15	23		7	4	3	1.
Iosco	39	19	20		30	18	17		9	6.	3					1.
Isabella	166	93	73		130	72	58		34	20	14		2	1	1	1.

a 1 male and 1 female "America."

TABLE XIII.—Continued.—Deaths by Counties, Nativity, and Sex.

	ALL 1	NATIVI	ries, 1	880.		NATIV	r.			FORE	GN.		τ	INEN	own.	
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
Isle Royal.a																
Jackson	326	180	146		281	152	129		41	25	16		4	3	1	
Kalamazoo	382	204	178		298	156	142		47	26	21		37	22	15	
Kalkaska	37	10	7		15	10	5		2		2					
Kent	845	448	396	1	685	347	337	1	151	94	57		9	7	2	
Keweenaw	72	39	32	1	50	26	23	1	22	13	9					l
Lake	26	16	10		21	12	9		5	4	1					
Lapeer	239	144	95		188	118	70		48	24	24		3	2	1	
Leelanaw	97	51	46		76	37	39		18	12	6		3	2	1	
Lenawee	370	190	179	1	332	169	162	1	36	21	15		2		2	
Livingston	169	74	94	1	143	59	83	1	24	15	9		2		2	
Mackinac	33	22	11		26	19	7		3	3			4		4	
Macomb	256	138	118		193	100	93		€2	37	25		1	1		
Manistee	92	56	36		63	37	26		26	18	8		ь з	1	2	
Maniton	11	5	6		5	1	4		6	4	2					
Marquette	334	190	144		230	121	109		97	65	32		7	4	3	
Mason	97	60	87		84	50	34	****	12	9	3		1	1		
Mecosta	159	88	68		126	65	61		99	16	6		8	7	1	
Menominee.	127	100	27		46	32	14		19	16	3		62	52	10	
Midland	94	56	38		77	46	31		12	6	6		5	4	1	
Missaukee	11	6	4	1	9	5	3	1	2	1	1					
Monroe	360	194	166		287	153	134		66	37	29		7	4	3	
Montcalm	319	168	151		282	147	135		28	14	14		9	7	2	
Muskegon	288	147	141		212	108	104		78	38	35		3	1	2	
Newaygo	168	87	81		141	71	70		17	9	8		10	7	3	
Oakland	330	180	147	3	246	129	114	3	61	39	22		23	12	11	
Oceana	131	75	56		103	60	43		24	13	11		4	2	2	1
Ogemaw	16	.9	7		10	4	6		8	3			3	2	1	
Ontonagon	40	24	16		29	18	11		10	6	4		1		1	
Osceola	166	83	83		135	65	70		30	18	12		1		1	-
Oscoda	2	1	1		2	1	1									
Otsego	5	2	3		5	2	3				*****		****			1.
Ottawa	354	187	165	2	256	127	127	2	86	54	32		12	6	6	

a No returns from the county clerk. b 1 male "America."

TABLE XIII.—CONTINUED.—Deaths by Counties, Nativity, and Sex.

	ALL 1	VATIVE	TIES, 1	880.		NAT	VE.		}	Form	en.		τ	JNKN	own	•
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
Presque L.	24	15	9		18	34	4		6	1	5					
Roscommon.	16	11	5		15	11	4						1		1	ļ
Saginaw	783	406	877		586	291	295		172	100	72		25	15	10	
Sanilac	206	124	82		187	82	55		68	42	26		1		1	
Schoolcraft.	6	6			2	2			2	2			2	2		
Shiawassee	206	101	104	8	178	85	85	8	29	12	17		6	4	2	
St. Clair	414	212	196	6	300	145	149	6	109	65	44		5	2	3	
St. Joseph	244	110	134		209	89	120		84	20	14		1	1		ļ
Tuscola	206	105	101		165	90	75		87	15	22		- 4		4	
Van Buren	211	116	95		194	106	88		9	5	4		S	5	8	ļ
Washtenaw.	341	188	152	1	247	139	107	1	87	43	44		7	6	1	
Wayne	2,437	1,857	1,079	1	1,600	901	698	1	684	884	800		a153	72	81	
Wexford	89	41	47	1	76	85	40	1	10	5	5		3	1	2	ļ

^{• 1} female "America."

## CAUSES OF DEATH, 1880.

Of the 16,102 deaths that were returned to the State Department for the year 1880, the causes of deaths were reported in 14,599 cases and in 1,503 cases the cause of death was either returned as "unknown" or with an assigned cause so general or so obscure in its character as to render it unacceptable. This is a larger number compiled as "unknown" than for any year since 1874, and shows the great need of improvement in this department of registration. Very much depends upon the honesty, fidelity, and intelligence of physicians for accuracy in this branch of the work. The deaths reported with causes not specified should diminish from year to year in number instead of increasing as they have in the last few years.

The causes of deaths are divided into the same classes as used heretofore in this State, and may be studied in Table XIV., following. The deaths from all causes may be compared with those for previous years in Table I., page 105, where it is seen that there were more deaths in 1880 than in any other year.

Diagrams Nos. 3, 4, and 5 will also facilitate the study of this subject. Table XVI. shows the particular diseases which are included in each of the five general classes, and also shows the counties of the State where the deaths from these diseases occurred. These diseases are again alphabetically arranged in Table XVII., showing the number of deaths from each disease for the years 1873-1880, the month of death, the sex, and age of decedents.

## CAUSES OF DEATH, DR. FARR'S CLASSIFICATION.

The causes of death for each of the years 1876-1880, classified under the five grand divisions, may be seen in Table XIV. The mortality-rate from Zymotic Diseases in 1880 is greater than for any other year since 1872, and greater than the average for nine years by 2.65 per cent. This class contains the contagious affections, and a high death-rate among them indicates the presence of epidemics which are so much dreaded and so destructive to the lives of children. There is a marked decline in 1880 in the class of diseases called Constitutional, it being 1.26 per cent. less than the average for nine years, .45 per cent. less than in 1879, and 2.13 per cent. less than in 1878. The deaths from Local Diseases do not vary much in relative numbers from the mortality ascribed to them in former years, the average per cent. for nine years being 28.65, while the per cent. for 1880 is 27.90. The proportion of deaths from Class IV.—Developmental Diseases—and Class V.—Violent Deaths -is greater in 1880 than in 1879, and greater than the average for nine years. As before remarked, the number of deaths from Unknown and Unclassified is greater than for any year since 1874.

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Diagram No. 4. Deaths Returned as having Occurred in michigan in 1880, by months, from All Causes and from each blass of Causes. fer.* /,700 1,600 1500 1,400 1,300 1,200 1,100 1,000 900 800 700 600 500 400 300 utitution 200 100

Designed by Horning O. ackers

TABLE XIV.—Number of Deaths Returned as having occurred in Michigan from All Causes, and from each Class of Causes, and the Per Cent. of Deaths from each Class of Causes to Deaths from All Causes, for each of the Years 1876 to 1880, inclusive; also the Average Number and Per Cent. for the Nine Years 1872-1880.

CAUSES OF DEATH,	187	76.	187	77.	183	78.	187	79.	156	30.	AVE FOR YEARS ING V 188	, END-
CLASSES.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total
All Causes	12,576	100.00	12,919	100.00	12,766	100.00	14,407	100.00	16,102	100.00	13,432	100.00
I.—Zymotic	3,094	24,60	3,319	25.69	8,121	24.45	4,177	28.99	4,825	29.97	3,669	27.32
II.—Constitutional.	2,348	18.67	2,454	19.00	2,290	17.94	2,343	16.26	2,546	15.81	2,293	17.07
III.—Local Diseases	3,647	29.00	3,506	27.14	3,481	27,27	3,918	27,20	4,492	27,90	3,848	28,65
IV.—Developmental	1,458	11.59	1,527	11.82	1,825	14.29	1,802	12.51	1,861	11.56	1,479	11.01
V.—Violent Deaths. Unknown and Un- classified	747 1,282	5.94 10.19	654 1,459	5,06 11. <del>2</del> 9	691 1,358	5.41 10.64		4.84 10.20	875 1,503	5.43 9.33		5.12 10.83

Exhibit 7 shows the number of deaths in each month of the year 1880 from each class of causes. It also shows what season of the year the increase or decrease of deaths in each class took place. Diagram No. 4, on page 162, illustrates this subject much more clearly, and presents to the eye the class of causes which caused the rise and fall of the line representing deaths from all causes.

EXHIBIT 7.—By Months, the Number of Deaths Returned as having Occurred in Michigan from All Causes and from each Class of Causes during the year 1880.

CAUSES OF DEATH,-	VEAR.					Mo	NTHS (	OF DEA	THS,-	1880.				
CLASSES.	1880.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oet.	Nov.	Dec.	Unk.
All Causes	16,102	860	1002	1149	1289	1,166	1,036	1,527	1,780	1,676	1,471	1,486	1,617	43
IZymotic	4,825	234	211	263	306	251	271	538	701	623	520	466	431	10
IIConstitutional.	2,546	165	159	211	214	221	163	234	237	251	202	246	238	7
IIILocal Diseases	4,492	252	334	387	424	353	310	361	421	402	377	381	484	6
IVDevelopmental	1,861	89	146	138	165	155	123	143	170	159	158	185	225	5
VViolent Deaths Unknown and Un- classified	875 1,503	37 83	48 104	49 101	60 120	84 102	74 95	114	88 163	74 157	78 136	85 123	82 159	1.0

# DEATHS IN 1880, GROUPED BY PART OF BODY DISEASED.

The number and proportion of deaths from each of seven groups of causes are shown in Exhibit 8. In 1880, more than one-fifth (22.03 per cent.) of the deaths from all causes are reported from "Lung Diseases," and the seven groups caused over 60 per cent. of all the deaths in the State.

Diagram No. 5, page 165, shows how the deaths from these seven groups of diseases vary from year to year. Thus, the deaths returned from "Lung Diseases" has been constantly increasing for each year since 1877. Also the rise of "Bowel Diseases" from fourth place in 1879 to second place in 1880.

EXHIBIT 8.—Order of Succession of Five Groups of Causes of Deaths Returned as having occurred in Michigan for each of the Years 1877 to 1880, inclusive,—Number of Deaths from each Group of Causes, and Per Cent. of Deaths from each Group of Causes to the Deaths from All Causes.

		1875.			1876.			1877.			1878.			1879.			1880.	
Овркв.	DISEABE	Num- ber.	Per Ct. to All Causes.	DISEASES	Num- ber.	Per Ct. to All Causes.	DISEASES Num-	Num- ber.	Per Ct. to All Causes.	DISEASES OF	Num- ber.	Per Ct. to All Causes.	DISEASES	Num- ber.	Per Ct. to All Causes.	DISEASES	Num- ber.	Per Ct. to All Causes.
	All Caus.	11,990	100.00	100.00 All Caus.	12,576		100.00 All Caus. 12,919	12,919	100.00	100.00 All Caus.	12,786	l	100.00 All Caus.	14,407	100.00	100.00 All Caus.	16, 102	100.00
-	Lungs	2,730	22.60	22.69 Lungs	2,753		21.89 Lungs	2,584	20.00	20.00 Lungs	2,609	50.44	20.44 Lungs	2,945		20.44 Lungs	8,387	21.03
69	Bowels.	1,621	•	12.69 Bowels	1,633	12.98	12.98 Bowels	1,702	13.17	13.17 Brain	1,440	11.88	11.25 Throat	1,803		12.51 Bowels .	1,962	12.18
83	Brain	1,388	• •	11.16 Brain	1,549		12.31 Brain	1,692	12.33	12.32 Bowels	1,247	9.77	9.77 Brain	1,466	•	10.18 Throat	1,809	11.79
*	Throat	406	8.8	8.39 Throat	2	4.30	4.30 Throat	181	6.05	6.05 Throat	1,160	9.09	9.09 Bowels.	1,424		9.88 Brain	1,709	10,61
10	Heart	391	8.38	3.26 Heart	\$	8 23	8.22 Heart	8	3.56	3.56 Heart	462	3.54	3.54 Heart	649	3.81	3.81 Heart	670	3.54
							Liver	38	86.	.98 Liver	143	1.12	1.12 Liver	121	18.	84 Kidneys	101	96.
													Kidneys.	113		.78 Liver	119	17.
1	1-5 6 Groups	6,378	_	52.19 6 Groups	6,881	i	54.72 6 Groups	7,945	56.08	56.08 6 Groups	7,051	1	55.23 7 Groups	8,421		58.45 7 Groups	9,800	98.86

Diagram No. 5.

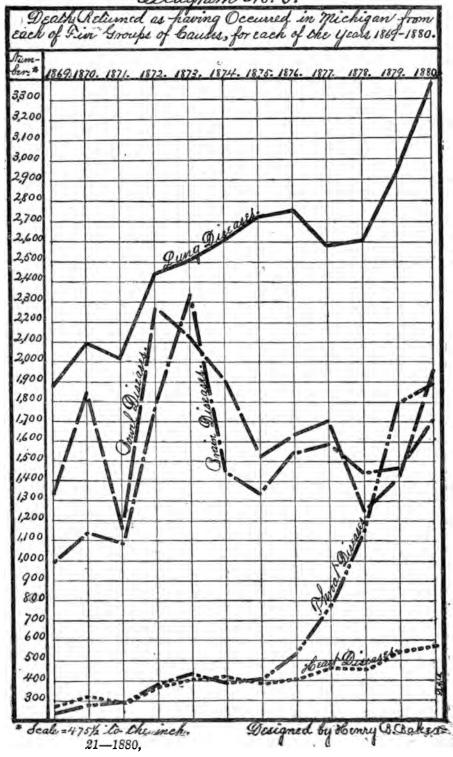


EXHIBIT J.—Eleven Geographical Divisions of the State, formed for the purpose of facilitating the study of Causes of Dath Division.

Upper	North-		North-		Northern	Bay and		South-	Southern	Bouth-
Peninsular.	western.	Northern.	eastern.	Western.	Central.	Eastern.	Central.	western.	Central.	eastern.
Baraga.	Benzie.	Antrim.	Alcons.	Kent.	Clare.	Bay.	Barry.	Allegan.	Branch.	Macomb.
Chippewa.	Gr. Traverse, g	g Charlevolx.	Alpena, 1	Lake. n	Gladwin.	Huron, p	Clinton.	Berrica.	Calhoun.	Monroe.
Delta. b	Leelanaw. h	Cheboygan. J Iosco. m	Iosco. m	Mason.	Isabella. º	Lapeer.	Eaton.	Cass.	Hillsdale.	Oakland.
Houghton.	Manistec.	Crawford.	Ogemaw.	Muskegon.	Mecosta.	Saginaw. 9	Genesee.	Van Buren.	Jackson.	Wayne.
Isle Royal.	Manitou.	Emmet.	Oscoda.	Newaygo.	Midland.	Sanilac.	Gratiot.		Kalamazoo.	
Keweenaw.	Missaukee.	Kalkaska, k	Kalkaska, k Presque I.	Oceana.	Roscommon.	St. Clair.	Ingham.		Lenawee.	
Mackinac.	Wexford.	Otsego.		Osceola.		Tuscola.	Ionia.		St. Joseph.	
Marquette. 4				Ottawa.			Livingston.		Washtenaw.	
Menominee.							Montcalm. r			
Ontonagon.							Shia wassee.			
Schoolcraft, f			•							

No returns of deaths from the following townships:

* Detour, Sugar, Island, Superior.

* Detour, Sugar, Superior.

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Table XV. shows, for each of the eleven geographical divisions of the State, the population of 1880 represented by deaths in 1880, the number and per cent. of deaths as returned, and the per cent. of deaths from each class of causes to deaths from all causes. The largest death-rates in the State appear for the Upper-Peninsular, Northern-Central, and South-eastern divisions, while the smallest death-rates are for the North-eastern, Central, and South-western divisions.

In the State, the largest proportion of deaths (29.97 per cent.) was caused by zymotic diseases, and the smallest (5.43 per cent.) from violent deaths. In the Upper-Peninsular, North-western, North-eastern, Western, Northern-Central, Bay and Eastern, and Central divisions the largest proportion of deaths was caused by zymotic diseases; while in the South-western, Southern-Central, and South-eastern divisions the largest proportion of deaths was from local diseases. In the Northern division more than one-quarter of all the deaths returned were from unknown and unclassified causes. There is need of great improvement in the registration in that part of the State. More than one-fifth (21.01 per cent.) of all the deaths, returned as having occurred in this State, are credited to the South-eastern division.

The particular diseases included in each class and the counties in which the deaths occurred will be found in Table XVI., following:

TABLE XV.—Exhibiting for the State and for each of the Eleven Geographical Divisions of the State, the Number of Deaths, the Per Cent. of Deaths in 1880 to Population in 1880, and the Per Cent. of Deaths for each Division to Total Deaths for the State during the Year 1880; also, the Per Cent. of Deaths from each Class of Causes to Deaths from All Causes.

STATE AND	Popula- tion June I.	REPO	THS RTED,	Per Ct. of all Deaths		USES TO	DEATHS	FROM EACT DIVI	L CAUSE	
GEOGRAPHICAL DIVISIONS.	1880, Represented by Deaths in 1880.	Num-	Per Ct. of Total.	in 1880 to Pop- ulation in 1880.	Class I. Zymotic Ducaucs.	Connec	Cl'ss III. Local Discases.	Cl'ss IV. Develop- mental Diseases.	Class V. Violent Deaths.	Unk. and Un- classi- fied.
STATE	1,624,040	16,102	100.00	.91	29.97	15.81	27.90	11,56	5,43	9.33
Upper-Peninsular.	80,128	1,013	6,29	1.26	34.75	9.67	22.21	10.17	11.06	12.14
North-western	38,970	389	2.42	1.00	80,08	14.40	20.81	13.37	8.23	13.62
Northern	29,181	239	1.48	.82	18.41	15,48	23.01	13.39	4.18	25.52
North-eastern	24,202	160	.99	.66	23.63	10.63	23.75	11.25	8.75	20.00
Western	188,271	2,075	12.89	1.13	39.13	14.36	22.51	9.69	5.06	9.25
Northern-Central	39,155	508	9.15	1.30	51.18	10.24	17.32	6.50	5.31	9.45
Bay and Eastern	242,357	2,401	14.91	.99	30.86	14.20	25.66	11.70	5.75	11.83
Central	293,822	2,392	14.86	.81	30,89	16.35	29.31	11.41	4.60	7.44
South-western	127,416	1,013	6.32	.80	25.44	16.60	85.36	11.20	4.42	6.97
Southern-Central	292,306	2,524	15.68	.86	22,23	18.86	35.66	12.40	4.71	6.14
South-eastern	278,232	3,383	21,01	1.24	26.57	18.06	28.47	13.04	4.82	9.05

TABLE XVI.-CAUSES OF DEATH.-Nosological Arrangement.

Exhibiting the Number of Reported Deaths in Michigan and in each County of the State during the Year 1880, from Specified Causes, Statistically Classified.—(Still-Births Included.)

											ວິ	LND	Counties.—1880.	-1880	_										
CAUSES OF DEATH,—1880.	.atata	Alcona.	Allegan.	Alpena.	Antrim.	Bataga.	Barry.	Bay.	Benzie.	Berrien.	Galboun.		Cass. Charlevolx.	Cheboygan.	Chippewa.	Clare.	Cilnton.	Crawford.	Delta.	Eaton.	Emmet.	. Сепевее.	Gladwin.	Gr. Traverse.	Gratlot.
All Causes	16,102	10	310	67	40	41	82138	393	4	334	252 36	361 16	163 4	41 5	20	59 63	191		4 60	275	85	356		7 49	12
Specified Causes	14,655	1 21	296	188	15 6	0 0	202	844	1 \$ 00	310	85.75	339 1	147 3	38 1	1 88 51	15 64	179		4 50	252	2 2	305		9 41	146
CLASSES.		1			İ	İ	Ť		1				1	1	1										
IZymotic Diseases	4,825	20	71	17	9	20	22	143	12	102	55	19	88	60	- 30	4 50	62		58	17	20	88		15	200
IIConstitutional Diseases	2,546	-	24	40	7	-	45	43	3.	22	45	73	1 15	01	4	69	26	1	-	20	13	5	1	-	91 6
IIILocal Diseases	4,492	-	112	12	6	*	23	96	10	110	1 06	611	64 1	13	10	1 6	63		9 6	83	=	115	61	30	29
IV.—Developmental Diseases	1,861	1	49	7	9	-	38	37	1	96	27	-	10	9	01	61	15	1		88		2 36	1		3 17
V.—Violent Deaths	875	00	10	00	90	1	21	61	00	16	34	61	10	CI	-	<b>C1</b>	11	_	9	-		2 1	_		**
Unclassified	99	- 1	1	-	Ť	1	-	1	;	-	1	01	1	1	1	a #		61	-	1			100	-1	-1
ORDERS.			9							-	_	-	_	_											
I1. Miasmatic Diseases	4,777	63	7.1	17	9	60	83	143	12	102	48	11	36	80	90	4 50	65		2 27	76	200	8		3 15	50
2. Enthetic Diseases	17	:	1	1	i	i	İ	1	1	1	- 1	1	1	- 1	1	- 1	1	į	1	1	i	1	1	:	-
3. Dietlc Diseases	65	1	1	1	1	i	i	1	1	:	00	:	1	1	1	1.4	i	1	1	1	1	_		1	- 1
4. Parasitic Discases	6	ij	1	1	i	1	01	i	Ť	1	н		1	1	1	1	i	1	-	-	1	-	1	1	1
II.—1. Diathotic Diseases	601	1	6	-	60	-	1	6	*	15	17	16	10	-	-	91	10	-	1	18	-	18		_	9
2. Tubercular Discasos	1,945		45	-01	*	7	8	100	10	9	188	25	88	-	00	2	=		7	32	12	41		80	10

III1. Diseases of Nervous System	1,602	85	37	9	67	-	19 3	57	65	52	36	16	4	9	1	=	61	1 3	20	•	40	Č4	93	83
2. Dis. of Organs of Circulation	556		13	QI	Q1	-	9	9	27	18	18	9	п	O3			6	1		*	16	1	-	<b>∞</b>
3. Diseases of Respiratory Organs	1,282	-	88	4	50	-	61	9	7 85	21	50	64	9	-	1	Q1	1		98	03	25	1	10	ıı
4. Diseases of Digestive Organs	662	1	18	to	_		10	7	7	17	20	13		00	-	20	17	1	10		60	1	-	13
5. Diseases of Urinary Organs	513		9	1	+	1	01	00	=	9	10	04	-		1		1	1	9	1	9	1	1	•
6. Discases of Generative Organs.	553	4	1	1	1	- 1	-	20	1	O1	1	1	•		1		1	- 1		1	-	1	1	÷
7. Dis. of Organs of Locomotion	21		1	1	:		-	-	1	-1	1	1	4	•	1			-	-		-	1	1	;
8. Dis. of Integumentary System.	93		1	н	-	+	1	61	-	-	4	C1	- 6		-		1	-	Ç1	1	*	1	1	÷
IV 1. Developmental Dis. of Children	867	- 1	21	*	03	-	-	63	1 2	15	15	0	*	10	-	-	90	61	13	4	7	•	-	7
2. Developmental Dis. of Women.	218	1	-	00	-	:	-	*	61	60	01	01	п	-	-	-	1	- i			10	1	-	+
3. Developm'l Dis. of Old People.	625	100	61	1	1	1	17	I*	-	9	23	63	4	00	-	- 1	-	- 1	13	1	7	1	H	9
4. Diseases of Nutrition	151	1	+	. ;	G1	-	-	1.		60	7	9	4	1	01	-	00	1		1	90	1	1	;
V1. Accident or Negligence	463	00	7	61	00	1	4	18	13	4	14	01	-	п		01	30		10	01	90	1	10	69
2. Battle	1		:	. (	:	-	- 1	- 1	1	1		1	ŧ	-	1		1	1	_		- 1	1	1	;
8. Homicide	9		1	1	:	1	1	•	1	- 1	:	1	•		1		-	1	_	:	- 1	1	1	;
4. Sulcide	99	•	1	d	1	1	1	- 1	ı	-	9	1	+		1		1	3	G.	;	-1	1	-	;
5. Execution	-	7.76	1	1	1	1	1		1	- 1		1		•	1	1	1		-	;	1	1	1	;
6. Violent Deaths	310	-	O4	-		1	00	-	-	0	01	60	04		-	C)	01	01		1	00	1	1	C1
CLASS I.—ZYMOTIG	4,825	65	71	17	9	00	55 14	143 15	5 102	52	13	36	.00	00	7	20	62	86	12	8	83	60	15	2
IORDER 1. Miasmatic	4,777	27	11	17	9	80	53 14	143	15 102	48	11	36	20	00	4	9 09	82	2 27	2.6	20	81	60	15	25
1. Small-pox	5	10	1		:	+	1	•	1	-		1		-;	1	1	1	1	- 1	1	- 3	1	1	;
2. Moasles	126		п	1	-:	1	01	60		61	00	i	1	-	1	1	1		G4		C.	-	1	i
3. Scarlatina	371		9	61	;	1	-	9	-	1	П	4	- (	+	1	- 1	00	1	œ	1	- }	1	1	i
4. Diphtheria.	1,542	60	7	1	60	1	12	40	31	10	OD.	9	•	00	01	61	61	9	18	1	88	1	9	81
5. Quinsy	6		1	:	1	1	1		1	-	1	1	•		1	1	1	1		1	- 1	1	1	i
& Group	333		. 1	61	+	-	-	11	11	1	9	-	-	-	Ť	-	01	-	10	01	Q1	Ī	1	ю
																				l			١	ı

TABLE XVI.—Continued.—Causes of Death, Classified.

		1														İ	Ì							
CAUSES OF DEATH,—1880.	STATE	Alcons.	АПедап.	Alpena.	Antrim.	Barry.	Bay.	Benzle.	Berrien.	Branch.	Calhoun.	Савя,	Charlevolx,	Cheboygan.	Chippewa	Clare.	Chinton.	Crawford.	Delta.	Eaton.	Emmet	Genesee.	Gir Traverse.	Gratiot.
7. Whooping cough	195	1	6				G.	9	10	04	01	-	i	1		-	13	1	1	01		*	-	- 1
(Typhold Fever	525	1	133	1	-	01	11	80	6	133	10	00	1	1		01	12	1	9	22	*	4	+	- 1
8. Typhus Fever	11	1	1	1			-	-	1	i	1		1	1	174	1	+	- ;		- 1	:	1	1	- 1
Typho malarini Fever	0	1	1	1			01	1	1	i	1		i	1	1	1	4	÷		- 1	1	1	+	
9. Erysipelas	102	1	-	1	4		*	1	i	-	00		i	1		1	1	1	1	00	1	01	:	-
10. Pucrperal Fever	41	1	-	1	1		-	1	04	-	Н	-	1	i	1	-	+	1	1	01		-	+	
II. Carbuncle	60	1	1				-	1	1	1	64	1	1	1	+	1	-:	:	1		- 1	1	1	- 1
12. Influenza	æ	1	1		-	,	1	-	1	- 1	1	-	1	1	1	+	1	1	1	- 1	+	÷	+	_
13. Dysentery	160	1	90		-		30	-	.04	60	-	1	1		- 1	91	89	-:	1	60	91	*	-	04
14. Diarrhea	310	1	10	6		-49	80	-	1	1	1	-	1		i	-	;	-	10	- 1	-	4	1	-
15. Cholera Infantum	400	1	10		C.V	=	17	-	10	*	19	*	;		+	1	10	1	10	15	6	13	1	4
Cholera Morbus	82	i	1				04	1	1	00	1	•	1		+	÷	1	1	-	. 1		÷	+	
Cholera	26	1	1			•	1	-	1	1	1	-3-	1	,	1	- 1	+	1	-	1		-	1	
17. Ague	137	1	60		11.	-74	2	-	*	-	cı	10	1		1	-	c)	1	04	-	-	Ot.	1	_
18. Romittont Fever	181	1	00					1	*	-	7	Q4	- }		04	F	-		1	-		60	=	
19. Rheumatism	2		-		- 10	1	-	1	*	10	1		1		-	1	61	+	1	00		61		-
ORDER 2. Enthetic	17	- 1	- 1	-	- 1		1	-	1	1	1		- 1	,	1	1	1	1	1	- 1	- 1	- 1	- 4	
1. Syphilis	35	1	1		•		1	1	*	1	1		1		1	i	1	1	1	- 1	,	1		1
Stricture of Urethra	-	1	1				1	1	1	1	1	.00	1		1	1	1	;	1	1	+	1		
Stweeture	-	1	1		-		1	1	1	1	1		1	100	-	-	1	+	+	1	-	-		-

& Hydrophobla	4	ŧ	5	÷	+	-	1	-	İ	ì	1	:	:	1	i	1	1	1	ì	÷	1	T	
4. Glanders	1	i		+	,		1		i	+	÷	1	-	-	į	1	1	:	1	+	i	-	
IUrdra 8. Dietic	25	1	- 1	÷	- 1		- [		6.0	-	t	1	1	1	1	-	1	- 1	1	-	-	-	•
J. Privation	1	1					1	Ť	1	+	1	1	1	+	1	1	1	- ;	- 1	1	,	•	•
Purpura	i		4	÷	10		1		1	1	-	÷	1	;	1	1	1	- 1	i	1	1	-	
2. Rachitis	60	1	1	•	,	-	1		ė	1	1	+	+	1	1	+	1		-	-		-	•
Scurvy		1	7.0	- 1			1		i	+	1	1	1	1	1	1	1	- 1	1	1	+	+	•
3 Delirium Tremens (Alcoholism)	0	1	1			- 1	1		-	1	1	1	1	1	1	1	1	1	1	1	1	1	•
4. Intemperance	13	1	k		1.0		1		7	-	+	1	1	1	1	1	1	- 1	1	Ť	1	-	•
6. Opium Eating	1	f	-	-10	14		1		Ť	1		+	-	-	1	1	1	:	1	1	1	1	
IORDER 4. Parasitio	6	- 1			-	OH.	i	- 1	•	H	+	-	+	+		-	-	-		-	_ !		
1. Thrush	9	1		- 4	-	01	1	1	1	-	1	1	1	1	1	1	1	-	1	-	1	0.4	
2. Worms	*	- (		1	1		1	1	-	1	1		-	1	i	1	_	- 1	1	1	1	-	
3. Disease of Scalp		:	•	1	- 4		i	1	i	1	1	1	1	1	1	1	1	1	1	1	1	-	
CLASS IL-CONSTITUTIONAL	2,546 1	10	ю	-	-	15 43	6	55	5	12	27	9	*	10	04	56	-	92	57	57		6	, 90
IIORDER 1. Diathetic	109	6	-	60	-	6 11	*	15	17	16	13	-	-		71	10	1	18	-)	91		-	
1. Gout	1	1	,	DF.	•		1	1	1	+	1	÷	1	1	1	1	1	1	1	1			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	61	1		1	-	-	1	1	1	1	1	+	1	1	1	+	1	1	1	Ť	1		
Dropey	275 1	0	-	-		01	H	10	14	6	-	1	-		04	-	1	20	1	7		-	01
3, Cancor	284	*	H	17		9	01	10	10		7	-	+	1		9	1	-	1	6	1		<b>.</b>
4. Noma (Canker)	52	1		69	•		1	1	1	1	1	1	1	:		1	1	C4	1	1	1		
5. Mortification	14	1		1		_	1	i	1	÷	;	1	-	1		1	1	-	1	1	-	-	,
IL-ORDER?. Tubercular	1,945	45	•	7	1 28	8	9	40	86	25	61	6	00	2		91	-	89	12	4		80	9
1. Scrofula	53	;				01	1	-	1	-	1	1	-	1		1	1	1	1	-	1	*	
2. Consumption of Bowels	65	01	ν.	- 1			1	60	-	C1	-	+	+	1		i	-	1	1	1	1		
3. Phthisis (Con. of Lungs)	1,849	4	*	*	1 27	7 32	10	37	12	23	30	6	01			16	9	50	g	40		00	9
									-		-	1							1		١	1	

TABLE XVI.—Continued.—Caures of Death, Classified.

											°	юды	FIES	COUNTIES1860.	0.										
CAUSES OF DEATH,—1890.	STATE.	Alcona.	АПедапь	.Alpena.	Antrim.	Baraga. Barry.	Bay.	Benzie.	Berrien	Branch.	Cathoun,	Casa.	Charlevolx,	Cheboygan.	Chippewa.	Clare.	Chinton.	Crawford.	Delta.	Eaton	Emmet.	Gladwin,	.98197ETT . Đ	Joliand	-
4. Hydrocephalus	7	1	1			1	1	1		1	-	1	1	1	i	1	+	1	1	-	1 1		1		
5, Marasmus	55	1	=	1	1	-;	-	1	1	-	1	1	1	1	İ	i	1	1	1	1	:	1	1		
CLASS III LOCAL DISEASES	4,492	*	115	12	0	*	53	96 10	011 01	90	119	64	2	15	-	9	8	01	9	833	11	15	61	92	
IIIOnder 1. Nervous System	1,602	00	37	10	.04	-	19	32	55	83	36	16	*	9	1	-	13	-	ee.	22	4	0,0	CI	. #F	89
1. Cephalitis	301	1	90	1	=	-	6.0	6	1 10	7	1	20	1	-	i	1	4	+	-	9	20	. :	1		01
2. Apoplexy	120	1	1	1	1	-	04	01	_	7	9	01	i	-	i	-1	2	0	1	00	:	61			
3. Paralysis	290	1	-	-	1	-	-	1	-	9	13	7	1	-	i	1	00	:	-	10	7	= 1		_	_
4. Insanity	6	i	1	1	1	+	1	1	1	-	1	Ĭ	1	,	i	1	1	+	1	1	-1	1	-		
5. Chorea	7	i	1	1	- 1	+	-	1	1	1	1	1	1	1	i	- 1	1	+	1	1	:	- 1	- ;		
6. Epilepsy	-	i	1	1	-1	-	-	-	1	.7	1	i	1	-	Ť	1	i	t	i	+		93		-	e:
1. Tetanus	04	İ	1	1	Ť	+		1	1	1	1	1	1	1	i	1	1	+	1	+		+	1		
8. Convulsions	347	1	0	61	:	-	01	9	1 8	.00	9	-	-	4	i	1	13	+	:	-	-	4			63
Brain Disease	202	04	6	01	1	;	7	19	. 0	4	90	727	1	1	i	1		+	ī	1-	-	9	- !		
. Dropsy of Brain	3.6	1	1	:	-	-	1	100	-	-	-	-	1	į	i	1	1	i	1	1	1	04	1		
10. Spinal Fever	17	1	01	1	1	1	-	1	2	-	1	-	1	1	i	1	64	1	1	00		G4	-		~
11. Spotted Fever	-	1	1	-		1	1	1	1	1	1	1	1	1	İ	1	1	1	1	1	+	-	4		
19. Meningitis	21	i	1	1	1	1	1	-	1	1	1	1	1	1	1	-	i	i	Ť	1	:	+	1		
13. Meningitis, Cerebro-Spinal	10	1	1	1	;	1	+	1	-	1	4	1	1	1	1	1	1	Ť	+	1	- 1	61	-		
14. Meningitis, Spinal	28	i	1	1	1	1	01	-	1	-	1	1	-	1	1	1	-	1	-	100	1	:	01		
15. Neuralgia	-	T	1		1	-	1	4	_	1	-	1		-	i		1		i	i	1	-	4	I to	

16. Spino Disease		!	1	7	Ī	1	1	1	7	1	1	1	1	Ì	ī	1	1	-	-	-	1	1	i
17. Spine, Inflam. of	701	1	:	:	i	1	1	+	1	1	i	:	1	1	-	1	+	1	1	1	-	1	i
18. Frightened		-	1.	1	1	1	+	÷	1	1	1	1		1	1	1	+		1		1	1	į
III ORDER 2. Organs of Circulation.	999	138	CI	O.		9	9	-	21	18	6	-	01	1	-	6		1	t-	16	!		•
1. Pericarditis	711	4	- 1	-	1	-	1	1	00	- 1	1			1	1	-	1	_	64			- 1	4
2. Aneurlem	ge .	-	1	- !	1	1	1	+	1	1	= 2	- 1	1	i	- 1	1	1	1		1	- 1	1	:
8. Heart Discase	483	90	01	-	-	10	9	1	9	17 18	6	-	61	1	1	00	1	1	10	13	i	-	7
4. Emboli	1	-	•	1	1	1	1	1	1		1		1	1	ì	1	1	1		- 1	1	1	į
IIIORDER 3. Respiratory Organs	1,982	38	4	93	-	13	56	-	25		6	9	*	- 1	61	#	7	95	20	8	i	NO.	=
1. Epistaxis	7	1	h	- 1	1	-	1	1	1		:		- 1	i	1	+	+	1	- 1	- 1	i	- 1	į
2. Laryngitis	69	-		-7	Ì	1	1	-			- 1	3	-1	İ		1	1			1	1		į
8. Bronchitis	20	1	1		i	1	÷	+		-	-	1	-	1	1	1	1			_	1	1	-
4. Pleurisy	35	1	- 1		1	64	1	-	-	7		1	- 1	i	1	-	+	-	-	1	ı	1	;
6. Pneumonia	919	99	60	80	п	11	18	-	7	8 55	=	*	-	1	-	01	1	01	0.8	50	1	4	9
6. Asthma	39	63	TA.	•	1	-	-	1	-		O1	1		İ	1	-	1	-	-	1	1	i	;
7. Lung Disease	227	1 4	-	20	1	01	-	20	9	-	00	C.	00	i	1	.01	-	-	_	03	1	-	-
8. Catarrh	90	-	- (	•	1	1	+	+		1	1	;		i	-	1	+		1.0	_	1	i	;
IIIORDER 4. Digestive Organs	662	18	69	-	-	10	- 45	1	14 17	8	13	1	60	-	00	17	-	16	- 1	21	1	-	21
1. Gastritis	53	-	01	131	1	:		+		01	-	:	-	i	1	01	+	-		- !	1	:	:
2. Enterltis	268	*	-	-	1	-	13	1	00	10	9	i	04	1	64	01	1			90	ŧ	-	9
8. Peritonitis	10	i	1	1	1	i	-	1	•	-	1	í	114	1	-	1	1	-			-	1	i
4. Ascites	10	-	100		i	1	1	1	7	1	Ţ	ì			1	1	1				1	1	-
5. Ulceration of Intestines	12	01		1	i	1	+	÷	+	80	_	:				_;	-	,			1	1	į
6. Hernia	13	1			1	ı	+	1	-	1	1	i	140	-		1	-				1	1	-
7. Obstruction of Bowels	4	1	•	-	1	i	+	+	1	1	1	ì				1	1				1	1	į
8. Intussusception	61	1			÷	1	+	1	-	1	1	ī			,		1				1	1	i
							İ		l		I	l	ĺ			Ì			İ	l			;

TABLE XVI.—Continued.—Causes of Death, Classified.

											5	000 TES 1000	-											
CAUSES OF DEATH,—1880.	STATE	Alcona.	Allegan.	Antrim	Antrim.	Barraga.	Bay.	Benzie.	Berrien.	Branch.	Culponn.	Cass.	Charlevolx,	Срероувап.	Chippewa.	·Clare.	Clinton,	Crawford.	Delta,	Eaton.	Emmet.	Genesee,	Gladwin	Gr. Traverse.
9. Stricture of Intestines	7	1	-	1	- 1		1	-1	1	_		-	_1	1	1	- [	,			1	-	1		
10. Fistula	Ŧ	1	-	1	- 1	1	1	- 1	- 1	- 1	-	1	- 1	1	i	ł	1		1	1	i	1		
11. Stomach Diseases	108	1	-	1	1	4	91	4	-	9	*	_	i	1	1	_1	61		1	C+	1	- 60		1
12. Pancreas Disease	1	1	1	-1	1	+	1	1	1	1	1	-	1	ı	-	- 1	1		1	i	-	1		1
13. Hepatitis	11	1	1	t	+	-	- 1	1	1	1	-	1	-	i	1	1	-		1	-	1	31		1
Billary Calculus	-	Ť	1	1	1	1.	1	1	1	1		1	1	1	1	1	1		4	-	1	1		1
Jaundice	6	+	+	1	+	1		-	_	C4	-	1	1	i	-	i	1		1	:	1	83		1
15. Liver Disease	93	;	00	-	1	1	-	1		-	-	01	1	1	1	-	7		1	-	1	0.5	- ;	1
16. Spleen Diseaso	ď,	1	-	1	+	1	1	1	-		-	1	i	1	1	1	04	-1	1	1	-			- 1
17. Bowel Diseases, etc	42	1	0.0	+	1	1	1	99	-	-	-	20	01	1	1	1	1	1	i	-	1	01		1
18. Mouth Diseasc	Ì	+	1	1	1	1	1	1	+	1	1	1	1	1	1	1	1	1	1	1	1	1		
IIIORDER 5. Urinary Organs	243	-	9	+	-	;	21	00	-	==	01 9	01	-	- 1	- 1	-	-	1	1	+0	1	9		-
1. Nephritis	15	1	01	1	1	1	-	-	1	1	1	1	1		1	1	1	i	1	1	1	-		1
9. Ischuria	-	1	1	1	1	1	+	-1	<u>.</u>	-	1		1	1	1	1	1	-	- [	i		-	_	1
3. Bright's Disease of Kidneys	80	:	01	1	1	1	-	1	-	-		10	1	i	1	1	-	1	1	04	1	-		1
4. Diabetcs	#	1	1	1	1	1	1	01	1	-	01	-	1	1	1	1	i	į	i	04	1	1		i
5. Calculus (Gravel, etc.)	63	1	-	+	1	+	1	-1	1		01	i	-	- 1	i	1	1	1	1	- (	1	O.		1
6. Cystitis	16	1	1	1	1	+	1	1		-	-	01	1	i	1	i	7	i	1	1	1	1		1
7. Kidney Diseases	63	1	1	1	;	1	+	1	-	9			1	i	1	i	64	1	1	1	1	"	Ť	1
III.—Order 6. Generative Organs	33				-	-																11	Ī	

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:	74	-	1	1	:			:	-	1	•		1	1	•	-	;	1	1	-	į
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IIIORDER 7. Organs of Locomotion.	5	+	1		1	1		f		-	- 1		1		- !	i	i	1	-		į
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IIIORDER 8. Integumentary System	93	1		-	1	1	01	-	*	-	4	C4	ı	- 1	1	-	01	1	-	1	;
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CLASS IV.—DEVELOPMENTAL DISEASES	198	-	9	-	-	36	37	1-	50	4	4	-	90	40	15	61	× 64	10	36	00	11
IV ORDER 1. Dev. Dis. of Children	298	1	21	- 02	1	11	10	2	2	12	10	-	2	1	06	01	13	-	14	-	1
	738	1	2	-	7	7	11	*	6	13	-	-	9		40	91	90	00	13	1	-
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IVORDER 2. Dev. Discases of Women	218	-	-	60	1	7	*	C1	*	00	04	- 64		1	1 3	1	-	1	42	-	•
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TABLE XVI.—Continued.—Causes of Death, Classified.

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OAUSES OF DEATH,—1880,	.MTATE	Alcona.	Allegan.	Alpena.	Antrim.	Baraga.	Barry.	Benzie.	Berrien.	Branch.	Calhoun	Casa.	Charlevolx.	Срероукап.	Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Euton.	Emmet.	Genesee.	Gladwin.	.98197g1T.74D	Gratlot.
IVORDER 3. Dev. Dis. of Old People.	625	1	81	1	1	1	17	7		10	6 23		*	60	-	1	1	- 1		13	1	14		1	9
1. Old Age	625	1	65	1	+	1	17	7	_	10	93		4	00	-	1	-	1	l	13	-	14	1	-	9
IVORDER 4. Discases of Nutrition	151	1	4	- 1	01	1	+	-	-	10	60	*	-	_	O1	-	60	- 1	1	1		80	- 1	1	-1
1. Atrophy and Dability	151	1	4	1	01	1	-	-	1	10	60	-	9	-	01	г	80	1	1	-	1	60		1	1
CLASS VVIOLENT DEATHS	875	00	10	00	10	1	01	55	60	16 1	14 29		01	-	64	*	=	- 1	9	14	01	=	- 1	4	4
V ORDER 1. Accidentor Negligence.	463	03	7	01	03	1	-	92	01	13	4 34		61	-	-	C.	90	i	4	10	01	90	1	60	01
1. Fractures and Contusions	57	H	ì	1	1	+	1	63	1	20	-	-	1	1	1	-	1	1	61	-	1	1	i	1	1
2. Wounds	17	1	1	1	1	1	+	+	1	- 1	1	1	1	1	1	1	-	į	- 1	1	1	- }	1	-	_
3. Burns and Scalds	64	1	-	-	-	+	-	01	1	-	-	-	1	i	_	-	-	1	1	-	1	0.9	- 1		
4, Polson	37	1	Ť	i	1	1	-	64	1	-	-	-	-	. 1	1	i	1	-	1	i	i	-	- 1		i
5. Drowning	179	-	G1	i	1	1	-	6	01	7	C1	:	1	1	i	1	80	-	-	1	1	60	- 1	-	1
6. Suffocation	53	1	OI	-	-	1	-	1	1	1	-	-	1	1	- 1	1	-	1		1	1	-	- 1		1
7. Otherwise	88	-	01	1	-	-	-	00	1	-	-	1	1		i	i	61	-	-	64	-	_	1	1	
VORDER 2. In Battle		1	1	Ť	1	i	+	+	+	-1	-		1	i		1	4		-1	- 1	- 1	- !			_
VORDER 3, Homicide	9	1	1	i	1	1	1	1	1	1	-	1	1	į	ı	i	-	- 1	-	- 1	1	1	- 1	1	
1. Marder	i	1	1	İ	i	1	1	1	+	-	1	1	1	1	1	1	-	1	i	1	1	1	İ		
VORDER 4. Suicide	99		-	i	1	i	+	i		_	-	9	1	i	i	- 1	1	ı	-1	Q1	1	- 1	ij	-	
1. Wounds	11					-	-	-	-	-	_	-	_	_!	1	_	1	_	1	-		-	i		

2. Polson	9			*	1	1	1	1	1	;	1		•		1	7	1	1	1	i		_		i
8. Drowning	*				1	1	1		i	:	1		÷		:	- 1	1	1		:		-1-	1	į
4. Hanging	11				131	1	1		1	-1	,		- 1			-	1	1	=			-	1	ł
5. Otherwise and not Specified	F0				1	1	1		1	1	10				+	÷	1	1	<del>-</del>  -				1	į
VORDER 5. Execution	- 1		-	-	1	G	1			- 1	- 1		- 1		1	-	1	- 1		į		•	1	į
J. Hanging	1		_	-;-		1	1		1	1.					1		1	1	•	1		•	i	į
VORDER 6. Violent Deaths not In-	340		.01	_			90	- 15	*	a	01	60	94		H	01	01	-	7	- (	60	-	1	64
UNCLASSIFIED	99	- 1		-					-	- 1	01				1	7	01	1		1	00	•	i	ŀ
1. Hemorrhage	16	-1				!	_		1	1	П				.;	+	-	1		- 4			1	i
2. Inflammation	38	:	_	-	- 1		_	_	1		- 1		-1		1	×	01	1		:		-	3	į
3. Solf Abuse	-	Î		-		- 1	1		1	1	4		1.6	-	1	1	1	1		1	=		1	;
4. Tumor.	-	1		_		1	1		1	1	1		- 1	1	1	+	1	1		1	1	Ť	14.9	į
Unspecified	1,447	7.		61	9	16	49	80	101	24	\$3	10	ю	13	7	10	12	10	00 04	62	2	-	7.	ا [∞]

TABLE XVI.—Continued.—Causes of Death, Classified.

	_				1	ļ			.		Ĭ	NOO	COUNTIES,-1880	ñ	8						ļ				1	
Causes of Deatii,—1830.	Hillsdale.	Honghton,	Huron,	medgal	Ionia.	Iosco.	Isabella.	Isle Royal.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Кеwеспаw,	Lake.	Lapeer.	Leelanaw.	Lenawee;	Livingston.	Mackinae.	Macomb.	Manistee.	Manitou, .	Marquette.	Mason.	Mecosta.	Menominee.
All Causes	518	888	3 160	512	287	68	166		326	385	II	845	51	56	533	16	370	169	83	256	92	=	334	97	156	197
Specified Causes	237	980	125	556	979	36	152	1	810	365	91	802	1 =	108	1 22	1 2	335	163	1 83	1 57	1 88	10	1 60	8	147	105
Causes not Specified	=	SS	89	1 19	12	63	11		16	17		40	-	9	18	62	255	9	10	22	6	O4	2	7	0	64
CLASGES,														1	İ	i	1			1	1			Ī		
IZymotic Discases	51	118	8	63	65	11	*	1	89	80	*	343	52	7	20	52	38	55	4	47	50	CI	120	#	87	40
IIConstitutional Diseases	9	58	3 15	43	57	00	83	1	61	65	60	137	-	-	37	12	159	8	9	69	10	1	88	13	15	00
IIILocal Diseases	8	69	35	5 77	102	9	38	1	137	145	2	201	98	9	98	15	120	5	01	82	56	1	17	64	50	88
IVDovelopmental Diseases	***	52	9	88	88	2	1	1	25	26	Ç+	87	15	10	63	6	21	21	00	68	18	20	\$	7	12	00
VViolent Deaths	13	81	10	11	13	9	7	-	12	15	-	22	7	01	15	9	16	00	00	7	ø	00	40	9	10	88
Unclassified	1	1	1	1	-	i	_	-	-	1	1	1	1	1	4	1	61	i	i	1	-	1	1	1	60	1
ORDERS.	_																									
I.—1. Miasmatic Diseases	51	118	8 44	4 65	64	17	74	1	68	80	4	200	8	7	20	22	81	53	*	47	18	C4	119	44	87	40
2. Enthetic Diseases	1	1	1	1	-	1	1	-	1	I		-	1	1	i	i	1	Ť	1	1	ī	1	1	1	1	j
3. Dietic Discases	-	1	1	1	- 1	H	1	1	i	1	1.0	1	1	1	1	-	-	i	i		01	-	-	1	1	1
4. Parasitic Discases	1	1	1	1		1	1	1	1	1		1	1		i	i	İ	i	i	İ	1	1	1	1	1	1
II1. Diathetic Discuses	18		01	10	88	-	10	1	13	18	01	20	i	-	:	00	83	10	-	16	04		10	6.0	10	-
2. Tubercular Diseases	*	12 24		13 32	34	_	18	1	48	47	_	107	-	-	98	15	39	53	9	55	00	-	55	63	10	

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5. Discases of Urinary Organs

TABLE XVI.—Continued.—Causes of Death, Classified.

					1						ខ	COUNTIES1880.	E8-	1880.	ĺ										1
CAUSES OF DEATH,—1890.	Hillsdale.	Houghton.	Huron.	Ingham.	Jonia.	losco.	Isabella.	Isle Royal.	Jackson.	Kalamazoo, Kalkaska.	Kent.	Кеwеспам.	Lake.	Lapeer.	Leelanaw.	Lennwee.	Livingston.	Mackinse.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.
7. Whooping-cough	04	90	90	*	a.	*	90	1	03	9	14		94		60	-	00	01	*	Ġ1	1	13		1	69
Typhoid Fever	00	00	9	130	138	-	40	4		13	-	10	63	20	9 1	35	4	1	10	1	1	21		7	12
8. Typhus Fever	1	-	1	T	i	i	1	+	1	1	1	-	1	1	1	1	;	1	1	-	1			-	i
Typho-malarial Fever	1	1	1	1	i	1	1	11		1	1	.01	1	1	1	1	1	- 1	1	;	ij	1		1	i
9. Erysipelas	90	-	1	20	7	7	-	+	9	*	1	.01	1	-	1	01	1	1	63	1	1	CI		64	i
10. Puerperal Fever	1	00	20	-	Ť	1	1	-	-	-!	-	12	-	1	- 1	00	60	- }	i	1	-	-		1	;
11. Carbunclo	-	1	1	1	1	:	1	-	-	1	1	- 1	1	-	1	1	1	- !	1	-		1		1	
12. Influenza	01	1	1	1	+	1	1	;	-	1		-	1	1	-	-	1	;	- [	1				1	
13. Dysentery	2	7	-	1	04	1	01	)	4	10	-	13	1	-	1	60	-	1	01	- 1	l	1		01	-
14. Diarrhea	-	01	KO	00	-	01	1	;	-	-	-	-	1	-	9	-	1	1	15	-	04	0		1	9
15. Cholers Infantum	10	46	-	=	10	1	10	:	13	10	01	41	-	1		18	15	1		90	1	-	21	10	
Cholera Morbus	1	10	1	1	t	i	+	1	04	1	+		1		01	-	1	1	1	1	1	-		K	
Cholora		1	1	1	i	1	1	1	1	+	1	- 4	1	1	1	1	I	i	1	-		1		1	
17. Ague	-	1	į	-	90	100	1	-	01	60	1		1	-	_	2	1	1	CH	1	1	1		7	
19, Remittont Fever	63	-	1	1	64	1	-	1	-	1	-	81	1	-	1 2	10	-	1	64	!	i	20	6,	"	-
19. Rheumatism	1	7	-	01	60	i	1	1	99	10	7.1	60	1	2.7	60	1	i	1	7	1	1			1	
-ORDER 2. Enthetic	-	1	1	Ť	1	1	- 1	+	1	- 1	1		_ !	-1	- 1	i	1	- :	1	-1	- 1	- 1		i	
J, Syphilis	1	1	1	i	i	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1
2. Stricture of Urethra	i	1	1	İ	1	1	1	+	1	1	- 1		1	1	1	1	1	1	1	1	1	1		1	
Stricture	1	i	i	Ī	j	i	i	÷	7	-	7	_	1	1	j	1	1	1	1	1	1	1	ŧ	1	

	o. Undergones																								
	4. Glanders	1	1	1	i	t	+	1	4	1	1	1	1	1	1	i	1	1	1	i	i	1	i	+	+
1	L-ORDER 3. Dietic	- 1	-	-	i	i	- 1	+	-	_ [	_ i	-	1	-	1	1	-	1	i	- 1	Q1	1	-	i	1
23	1. Privation	1	1	1	1	1	1	-	1	1	1	1	i	1	i	1	i	-1	1	i	i	1	+	1	1
	( Purpura	1	1	1	i	1	+	1	1	1	1	1	i	1	1	i	1	1	1	i	i	t	1	1	+
188	2 ( Rachills	1	1	1	1	1	1	1	1		1	1	i	1		1	1	1	i	i	1	1	+	+	+
	Scurvy	1	1	-	i	1	+	-	-	1	1	i	1	- [	-	ì		1	1	i	i	+	i	1	i
	3. Delirium Tremens (Alcoholism)	1	1	1	i	+	1	1	1	1	1	1	i	1	1	1	1	1	1	1	-	1	-	÷	i
	4. Intemperance	1	1	1	i	1	1	-1	-	1	1	-	!	1	1	1	1	1	1	1	-	-	+	- 1	÷
	6. Opium Eating	1	1	1	i	1	+	1	1	1	1	1	1	1	1	1	-	1	Ì	i	i	1	+	t	÷
3	LOnden 4. Parasitic	1	-	1	-1	-	- 1	-	1	_	_		- 1	1	i	- 1	-	- 1	ī	i	i	1	1		-:
	1 Thrush	1	-	1	i	+	- 1	-	-	1	1	1	į	1	1	- 1	1	1	1	i	ì	1	1	1	1
	2 Worms	-	1	i	1	-	1	1	1	-1	1	1	1	1	1	- 1	i	1	Ī	i	i	- 1	1	1	1
	3. Discase of Scalp	1	i	1	i	1	1	+	4	_	1	1	1	1	1	1	-	1	1	i	i	i	1	+	1
CL.	CLASS IICONSTITUTIONAL	9	36	23	52	70	00	23		1 65		8 137	-	-	120	12	3	50	9	8	10	-	- 25	61	135
=	IIOaden I. Diathetic	18	<b>C4</b>	64	90	53	-	9		13 18		2 30	1	1	=	60	83	10	1	16	01	1	10	60	10
	1. Gout	1	1	1	1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	;	-
	Ansmia	1	- 1	i	i	1	+	+	1	_	1	1	1	1	1	1	1	1	1	İ	i	i	1	-	1
	"\ Dropsy	1	-	04	*	1	-	10	-	•	_	15	1	1	80	01	9	69	1	6	i	1	*	04	01
	3. Cancer	0	-	i	9	18	1	64	-	7 12	64	7	1	1	60		50	-	1	*	04	i	-	-	01
	4. Noma (Canker)	-	1	1	1	04	+	+	-	1	1	1	;	1	1	1	1	1	i	00	Ť	i	+	÷	1
	5. Mortification	-	1	1	1	-	+	+	1	-	1	-	1	1	1	1	1	-	-1	Ť	i	1	÷	+	1
H	IIORDER 2. Tubercular	4	22	130	63	35	64	18	1	18	-	107	-	-	26	12	39	23	9	2	æ	-	33	01	10
	1. Scrofula	-	1	1	*	-	+	1	1	-	1	1	1	1	I	- 1	-	1	1	01	i	4	+	+	1
	2. Consumption of Bowels	1	1	1	1	-	+	1	1	-	-	-	1	1	1	1	1		1	1	i	1	÷	-	01
	3. Phthisis (Consumption of Lungs)	7	2	13	31	650	61	18	_	16 45	2	103	-	-	98	12	27	57	9	7	90	-	888	C	00

TABLE XVI.—Continued.—Causes of Death, Classified.

		-		-		- 1					٦	NO D	COUNTIES1880	<u>۾</u>	ا يو		- 1							- 1	
CAUSES OF DEATH,—1880.	Hillsdale.	Houghton.	нотин.	.madgaI	lonia.	losco.	Isabella.	Isle Royal.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.		Leclanaw.	Lenawee.	Livingston.	Mackinac.	Масотр.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.
4. Hydrocephalus		1	1	-	1		1	Ť	1	1	1	1	1	- 1	1	,	1		1	į	1			1	
6. Marasmus	-1	١	-1	1	7	•	1	Ť	1	1	+	i	!	+	1	1	<u> </u>	1	1		1	i i delli	1	1	1
CLASS III.—LOGAL DISEASES	80	69	36	77	102	8	38	1	137	145	- 60	102	56	10	1 98	15 120	-	19	82		56		17	- 5	20 28
IIIORDER 1. Nervous System	18	8	7	25	88	63	13	i	6	49	60	29	6	-	21	69	30	13	- 30		89		37	9	01 10
1. Cephalitis	10	2	-	20	*	•	9	T	4	0	T	17	-	1	-	01	60	04		0	99		00	_	61
2. Apoplexy	10	C+	1	*	1	•	1	1	Q4	0	1	*	00		04	-	63	6		60	1		:		-
3. Paralysis	6	1	G4	12	27	•	1	i	23	13	-	13		1	20	6	91	9		6	-			-	01
4. Insanity	1		-1	1	1	•	-	1	-	-	1	-	1	1	1	1	<u>.</u> !	1	1		1	-	-	<u> </u>	-
5. Chorea	1	64	1	-	1		1	1	;	1	+	1	1	1	+	1	1	1	1	1	1	•	1	1	
6. Epilopsy	-	1	1	1	1	•	Ī	i	1	C)	1	98	1	1	-	1	1	1		64	-	_	1		-
7. Tetanus	1	1	1	1	1	•	1	İ	ī	1	1	1	1	1	+	1	i	1	1	1	1		-	4	4
8. Convulsions	-	13	1	-	-	-	-	1	9	200	1	6	-		+	-	10	-		64	99		23	-	00
Brain Disease	17	1	60	0	12	01	0	1	=	10	+	55	1	7	-		9		-		1	•		*	-
Dropsy of Brain	-	1	-	1	1		-	1	-	-	1	-	+		-	_	01	1		01	1	-	+	+	+
10. Spinal Fever	01	1	1	-	œ	*	-	1	7	-1	-	4	+	1	+	1	60	!	1	1	+		1	4	-
11. Spotted Fever	-	1	1	1	1		1	İ	1		1	÷	1	:	1	1	1	1	1	1	1	•	1	1	+
12, Meningitis		1	į	1	i	•	1	i	1	1	1	+	1	+	+	1	1	1	1	1	1	-	1	1	
13. Meningitis, Cerebro-spinal	1	-	1	1	1	٠	1	i	1	-	i	+	1	+	+	-	1	1	1	1	1	•		1	1
14. Meningitis, Spinal	1	1	1	61	-	•	1	1	9	4	1	=	;	+	1	,	-	1	1	1	1		1		C8
15. Neuralgia	_	1	1	1						-	i	i	-	-	-	1	-	-	1	4	4		1	4	-

16. Spine Disease	1	1	1	-	100	Ī	i	1	1	1	7	1	*	1	- 2	1	ī	7	1	į	1	
17. Spine, Inflam. of	1	1	-	1	- 1	1	1	г	-	-		1		1	:	1	ì	i	1	-	-	•
18. Frightened	1	-	1			1	i	-1	1	+	•	1		+	- 1	1	1	í	1	1	1	•
IIIORDER 2. Organs of Circulation	11	9	0	8 13	-	*	1	19	13		- 5	7	6	64	26 15	1	- 2	-	20		- 1	61
1. Pericarditis	1	1	1	61	-	1	1	01	1		Q1	1	•	1	-	1	64	1	1	1	+	
2. Aneurlsm	i	÷		:	•	1	i	1	1	+		1	- 1	+		1	-I	I)	1	1	1	•
8. Heart Disease	14	9	0	7	•	•	1	17	3		13		0	64	20 10	1	12	*	60	90	4	61
4. Emboli	1	1	+		-1	1	Ť	1	1	1	•	1		+	;	1	1	ď.	1	1	1	•
IIIORDER 3. Respiratory Organs	12	22	11	15 27		10	1	88	45	64	20	10	650	- 64	8	01	53	-	23	9	99	80
1. Epistaxis	1	1	1	1		1	Ť	1	1	+		1	(Jr.	1		1	1	i	1	-	1	
2. Laryngitis	i	-	1	100	•	1	1	1	1	1	1	1	,	1	;	1	1	i	1	1	- 1	•
3. Bronchitis	1	9	-	04		7	1	H	1	-	-		•	1	-	1	di.	•	00	1	1	•
4. Pieurisy	-	Tal	01	-		1	1	1	9	-	-	1	•	1	-	-	1	ř	+	+	-	•
6. Pneumonia	a	**	-	3 18		an	ì	27	31	7	-	-	30	09	63	-	19	9	71	10	63	2
6. Asthma	1	п	Oi.	6	- 1	1	i	1	-	1	-	1		+	-	1	1	1	04		+	
7. Lung Discase	C1	-	01			-	-	6	-	-	-			00	4	1	•	7	-	-	-	_
8. Catarrh	1	4.	-	4		1	T	i	:	1	1	1		+	+	1	1	i	1	+	1	
IIIORDER 4. Digestive Organs	0	9	6	8	01	03	1	13	1		#	20	27	63	18	1	œ	ю	*	4	00	60
J. Gastritis	1	- 74.	- 4	61	•	1	1	-	01	1	Q4	1		-	-	1	C)	-	1	+	1	
2. Enteritis	-	03	to	01	•	64	1	1	9	-	=		9	-	-	1	1	61	-	*	to	1
3. Peritonitis	1		1	1	- 4	1	Ť	-	1	1		1		1	61	1	1		1	+		_
4. Ascites	1	D)	•	-		1	1	T	-	1	1	1	-	1	1	1	i	1	1		+	
5. Ulceration of Intestines	1	н		27 () 	: (:	1	1	1	1	1	1	1		1		1	1	3 k	1	!	1	
6. Hernia	04	- 1		A.		1	1	-	1	1	-	j		+		1	:	7	1	+	+	
7. Obstruction of Bowels	1	,		1	•	1	Ī	i	1	+	1	1		+	1	1	1	i	1	+	1	
8. Intustusception	i		_	1	4	1	Ť	1	+	1	1	1		1		1	t	i	:	į	<u>!</u>	
														İ							l	

TABLE XVI.—Continued.—Causes of Death, Classified.

											ا د	Coumties.—1880.	E .	<b>2</b>			İ					Į		
OAUSES OF DKATH,—1890.	Hillsdale.	Houghton.	Huron.	Ingham.	.alnoI	Tosco.	Isabella.	Isle Hoyal.	Jackson.	Kalkaska	Kalkaska. Kent.	Кемеспаж.	Lake.	Lapoer.	Leclanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manlatee.	Manitou.	Marquette.	Mason.	Mecosta.
9. Stricture of Intestines	1	T			1				-	:	1	1	1			1			1					1
10. Fistula	1	1	-	i	1	1	1	1	1	1	1	1	-!	-!	1	1	1		1	1	1	-	1	1
11, Stomach Diseases	01	ī	00	10	-	+	1	1	00	63	-	-	-	-	93		01	69	-	01			- 1	1
12. Pancreas Discase	1	i	- 1	,	1	1	1	+	-:	+	1	- 1	1	- !	1	1	1	-	1	1	- 1	- 1	-	1
13. Hepatitis	1	1	1	-	+	1	1	1	;	-	1	-	-	+	1	1	1	1	1	1	1	-	1	1
14. Sillary Calculus	1	1		-	t	Ť	+	+	1	1 ,	+	1 0	1	!	1	_	1	1	1	1	1		1	i
( Jaundice	1 -	, C4		1 01	1 -	1 -		1 1	-	- 00		H 50	1 1		. !	. 9	1 9		61	1	1		1	1
16. Spleen Discases	1	-		-	-		i	- 1	-	-	1	-	- 1			_ !	-	-	- 1	1				1
17. Bowel Discases, etc.	1	i			1	1	-	i	:	-	1	01	-		-	_	1	1	01		-1	60	1	1
18. Mouth Disease	1	1	-	•	1	;	1	+	+	+	+	1	1	+	+	1	1	1	1	-	-	1	1	-
III -ORDER 5. Urinary Organs	9	04	7	9	0	1	- 1	1	-	13	-	16	69		-	_	9		9	-	- 1	-	-	-
I. Nophritis	1	1	1	÷	1	İ	1	1	;	-	1	4	4	-	-			1	1	-	- 1	1	1	1
2. Ischuria	1	1	1	÷	1	i	1	1	+	1	+	-		4	1	1	1	1	i	1	1	1	1	1
3. Bright's Disease of Kidneys	e)	-	1	49	60	i	+	1	-	9	1	9	61		01		_	60	_	1		1	1	1
4. Diabetes	01	1	-	-	+	i	1	1	01	00	;	-	+	-	60		_		1	i	1	i	1	-
5. Calculus (Gravel, etc.)	1	1	1		-	i	1	+	:	-	1	-	1	+	1	1	01		-	i	I	-	1	1
6. Cystitis	1		1	•	1	i	1	1	-	+	1	-	+	+	1	+	1		CI	i	i	1	1	1
7. Kidney Disease	-	1	1		10	i	1	1	60	01	1	9	1		-	-	-	04	4		1	1	-	1
IIIOsper 6. Generative Organs					60	i	-						-	_	_		0	_						-

0,	Ovarian Disease	Ī	1	1	+	1	1	1	7	-			:	1	Ī	i	1	Î	Ť	Ì	i	1	7	7	i	
°;	Ovarian Tumor		1	1	1	-	:	-	7	_	,	01	1	1		1	:	1	i	i	1	1	-		į	
2. Di	2. Diseases of Uterus	i	1	1	1	04	+	-	- 1	- 1		~	٠	1	1	1	1	i	1	-	i	11:	- 1	- 1	•	
S H	& Hydrocele	1	İ	1	1	1	+	+	1	1		F		1	1	1	1	i	İ	i	÷	-1	. 1	-	i	
111.—0B	IIIORDER 7. Organs of Locomotion	-	-	1	i	-	- 1	1	**	- 6		-	:	1	-		-	i	1	64	1	1		-	i	
1. A1	1. Arthritis	1	1	1	;	1	1	1		1	,		1	-	1	:	1	Ť	Ť	i	1	-1			•	
9. Jo	2. Joint Diseases	1	-	ı	1	1	1	1		61		-	a.	1	-	1	-	Ť	1	C4	i		4.			
III.—0B	IIIORDER 8. Integumentary System.	-	04	1	04	4	-	1	,	64	1	13	•		93		-	1	1	-	-		60			
1. Ph	1. Phlogmon	i	i	1	;	-	:	1	- A.	-	-	C4	1	1	-	1	1	Ť	İ	1	-	1	64			
2. U	2. Ulcer	1	1	1	1	-	1	1	-	-	-	-	•	1	i	1	1	i	i	i	1	- 1	11	7.6		
8. Sk	8. Skin Diseases	-	01	T	01	04	+	+	7	-		24	1	1	O4	1	-	ì	1	-	÷		-			_
OLASS I	CLASS IV.—DEVELOPMENTAL DISEASES.	25	55	2	88	23	10	1	65	99	01	87	2	2	53	6	19	2	60	33	18	10	4	7	01	
IVOR	IVORDER 1. Dev. Diseases of Children	9	16	139	Ħ	13	00	-	7	7	-	8	=	01	15	10	16	œ	-	92	123	-	91	-	9	
1. 8t	1. Still. born	ю	15	16	6	18	60	9	× .	22		8	-	04	15	9	13	90	1	15	24	:	56	-	9	
15.	Infantile	-	1	1	1	-	<del>-</del> †	+	-	_		-	-	1	1	1	i	i	i	1	-	1	- 1		- 1	
~ -	Premature Birth	1	-	64	-	1	1	01	-	- 1		01	40	1	1	1	64	i	1	İ	Ť	1	90			
s. C)	& Gyanosis	1	1	1	1	1	+	1	-	-			C4	1	1	1	-	T	i	Ť	Ť	1		,	7	
4. Sp	4. Spina Bifida	1	1	1	i	1	+	1					:	1	1	1	:	i	1	i	i	1	1.	EA:	-4	
<b>6.</b> 0	5. Other Malformations	1	1	1		1	+	+			,	15	-	1	-	1	1	Ť	Ī	İ	i		:	-	- 1	
6. T	6. Teething	1	ī	-	7	1	+	1		-		G.	-	1	1	1	1	1	-	*	1	-	:	-	-10	
7. In	7. Injury at Birth	1	1	1	i	1	÷	1	1	-			190	1	1	1	1	1	1	i	i	1		41		
IVOR	IVORDER 2. Dev. Discasses of Women	9	1	-	*	60	-	61		01	-	22		i	-	1	9	-	1	60	01	1	11	-	C1	
1 ( 1	) Dysmenorrhea	Ì	1	1	i	1	+	1	1					1	1	1	1	1	Ī	i	t	1				
<del>-</del> -	Turn of Life	-	1	1	1	1	+	1	1	1				1	1	-	1	Ť	1	i	i		1		_	
٢	Childbirth	00	1	-	*	00	-	6	•	61	-	=		1	-	-	9	-	1	60	01	- 1	11	н	01	
- <del>-</del> -	2. { Abortion	01	1	1	i	1	+	+	1	+		_		1	1	1	1	İ	Ť	Ť	i	1	10			_
-	Uterine Hemorrhage		1		-	-;	-	-!	7			_	119		_	1					-1	-;	11	-	_	

TABLE XVI.—Continued.—Causes of Death, Classified.

				-							8	NTI	COUNTIES1880	2			-	1		- }		j		ŀ	
CAUSES OF DEATH,—1880.	Hillsdale.	Houghton.	Нигоп.	Ingham.	Ionia.	Isabella.	Isle Royal.	Juckson.	Kalamazoo.	Kalkaska.	Kent.	Кечеепаw.	Lake.	Lapoer	Leclanaw.	Lennwee.	Llvingston.	Mackinac.	Macomb.	Manletce.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.
IVORDER 3. Dev. Dis. of Old People	81	-	4	6	6	:	*10	11		-	25		60	7	- 4	<b>61</b>	=	67	15	-	01	-	20	4	:
1. Old Age	65	-	*	5	6	1	10	71	7 38	80	33		60	=	1	53	=	¢1	13		CH	-	200	4	
IVORDER 4. Discases of Nutrition	- 1	00	1	7	7	-	- 1	-	61		00	- 1	I	CI		9	7	-	01	CH		90	61	- 1	_
1. Atrophy and Debility	1	80	-	4	4	-	1	**	01	1	80		1	04		φ	-		04	01	1	00	01	1	-
CLASS V.—VIOLENT DEATHS	21	61	01	7	01	10	-	21	13	6	60	-	G1	9	10	16	60	00	=	00	00	40	9	10	82
V ORDER 1. Accident or Negligence	10	*	90	9	9	-	-		9	7 1	22	01	-	90	-	9	00	2		*	Q4	63	20	9	80
1. Fractures and Contusions	H	i	i	1	-	:	-		- 1	1	63	-	-	-		-	i	=/0	1	1	i	1	-	01	-
2. Wounds	i	1	1	+	+	1	1	1	3	1	-	1	1	•		04		•	1	_	i	1	1	1	:
3. Burns and Scalds	-	-	1	:	+	1	1	-	-	61	*		1	- 1		1	-		01	-	Ť	1	1	1	64
4. Poison	÷	1	7	-	-	+	1	1	-	1	00		1	-		-	61		-	İ	İ	1	-	H	į
5. Drowning	7	20	10	01	-	00	1	-	-	1	10	04	1	60	*	·	1	2	1	20	1	1	-	-	•
6. Suffocation	Ì	i	i	1	01	+	1	1		01	-		1	:		i	1	- 1.	i	1	Í	1	1	1	
7. Otherwise	H	T	04	1	-	-	1			64	-	- 1	-	61	pp	-	-		63	1	04	80	1	CI	_
VOrden 2. In Battle	j	i	i		÷	1	1	- 1	- 1		1		-			1	1	·	1	1	Ť	1	1	- (	
VORDER 3. Homicide	H	i	+	-	-	- 1	1	- 1	- 1%	1	1		1	1		ì	1	-	Ť	i	i		1	1	-
1. Murder	7	i	i	1	-	1	+	1	1	_	1		1	1		-	1	Ť	1	1	Î	1	1	1	_
VОврев 4. Suicide	01	i	1	<b>Q4</b>	00	1	:	-	01	1	10		-	64		63	ij		i	Í	İ	1	-	-	•
1. Wounds	1	ì	i	1	-	-	-		-	-	Cs	_		1		i	1	- 1		-	-	1	1		•

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÷	+	+	61	1	+	-	-				1	=======================================
ŧ		1		1			i				1	
2. Polson	3. Drowning	4. Ilanging	5. Otherwise and not Specified	VURDER 5. Execution	l. Hanging	VOuden f. Violent Deaths not In-	UNCLASSIFIED	J. Hemorrhage	2. Inflammation	8. Solf Abuse	4. Tumor	Unspecified

TABLE XVI. -Continued .- Causes of Death, Classified.

												COO	COUNTIES1880.	811												
CAUSES OF DEATH,-1880.	Midland.	Missaukce.	Monroe.	Montealm.	Muskegon.	Newaygo.	Oakland.	Осевпя.	Окетаж.	Osceola,	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Ковсоттоп.	Saginaw.	Sanilac.	Schoolcraft,	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Маупе.	Wexford.
All Causes	8	11	360	319	588	168	330	131	16	40 10	106	61	354	25	16	783	206	9	508	414	244	506	112	3411 5	2487	88
Specified Causes	88	90	833	292	534	157	294	061	1 23	339	153	4	308	18	10	708	185	9	185	354	23.1	106	195	326	2513	2
Causes not Specified	6	20	2	22	54	=	36	11	-	-	13	7	97	9	9	75	57	1	56	99	10	9	16	15	224	2
CLASSES.			11								_		_								1	1	-	-		i
I.—Zymotic Diseases	41	-	16	117	110	88	7.	:	1	10	93	-	93	60	•	246	89	1	85	133	8	25	20	81	189	S
IIConstitutional Diseases	11	-	26	88	8	11	67	30	40	9	13	-	89	99	-	113	41	1	52	22	20	35	53	89	129	Ξ
IIILocal Diseases.	20	C4	107	20	22	53	109	31	9	16	8	-	1 93	1	4	196	25	04	44	16	78	99	7	31	662	92
IV.—Developmental Diseases	*	4	69	37	11	11	30	30	;	-	13	-	45	*	i	68	81	i	20	219	20	61	16	4	313	<b>0</b> 0
VViolent Doaths	6	1	2	19	18	90	13	=	1		-	-	61	_	-	6	90	**	10	12	10	90	#	14	118	•
Unclassified	1	1	64	1	*	1	-	1	64	1	+	1	1	1	1	7	7	i	-	*		-	1	7	1	-
ORDERS.								-	+	_	_			_									-	-		
I.—1. Miasmatic Diseases	4	-	94	147	107	81	23	33	1	6	55	1 1	1 92	60	10	246	28	1	85	131	67	29	20	78	299	8
2. Enthetic Discases	1	1	1	1	1	-	-	+	1	1	-	1	1	1	1	1	1	1	1	-	-	1.	1		=	i
3. Dietic Diseases	1	1	1	1	63	1	1	+	1	-	1	1		1	1	i	1	1	1	-	1	1	4		10	į
4. Parasitic Diseases	1	1	1	1	i	i	1	1	+	+	1	1	1	1	1	1	1	1	1	İ	1	1	1		-	i
II1. Diathetic Diseases	64	-	5	9	60	9	27	10	-	10	:	-	2	-	-	13	1	i	-	15	27	2	00		73	
2. Tubercular Discases	Ġ	-	88	95	27	Ē	25	08	4	-1	8		43	01		100	75		2	4	38	88	20	41.8	357	2

III1. Diseases of Nervous System	*	-	585	83	15	10	10	0	64	01	2	1	33	9	1	88	13	-	12	98	9	6	37	301	on 	
2. Dis. of Organs of Circulation.	4	1	13	*	90	-	16	9	-	9	-	1	9	i	1	15	8	- 1	-	9	80	8	16	8		
3. Dis. of Respiratory Organs	9	1	30	*	18	25	8	*	04	-	13	1	30	01	64	8	15	-	0	22	30	30 28	4	162	2	
4. Dis. of Digestive Organs	7	i	9	7	13	01	17	11	-	10	04	1	23	1	-	98	12	1	90	99	0	2	15	69	**	
5. Diseases of Urinary Organs.	04	-	*	60	1	64	1	01			01	1	00	Ì	;	9	+	1	~	-	+	10	6	9	_	
6. Dis. of Generative Organs	1	ı	Q1	-	-	;	-				<b>Q9</b>	1	1	i	1	-	-	1	-	-		_	1	80	i	
7. Dis. of Organs of Locomotion	1	1	1	1		:	1	:	114	-		-	1	Ť	1	1	-	1	-	-	=	1	1	٥		
8. Dis. of Integ'entary System	1	i	0	04		-1	-	01	110			-	-	Ť	1	00	01	1	-	80	-	04	60	7		
IV 1. Developm'l Dis. of Ohlidren.	-	04	13	2	20	4	6	-		-	7	1	56	60	1	23	10	- 1	*	24	8 17	71 17			•	•
2. Developm'l Dis. of Women	1	-	40	1	Q)	01	40	-	114	1	60	-	90	-	1	-	-	-	00	-	CI	_	20	- 3		
8. Developm'l Dis.ofOld People	80	-	13	0	*	=	15	-		1	01	1	0	i	1	55		1	13	1	91	9	6	96	04	
4. Diseases of Nutrition		1	60	1	60	1	-	-	-	- 1		1	09	i	1	-	+	Ť	1	20	61	F	83	83		
V1. Accident or Negligence		1	10	-	13	69	-	-	-	;	-	- [	12	-	- 1	31	10	01	9	90	10	60	4	20	•	
2. Battle	1	1	i	1	1	- (	1	;	-	-:		1	- 1	i	Ī	1	1	1	1	1	1	- 1	1	1		
8. Homicide	1	1	Ť	1	1	1	1			:	:	1	1	1	1	1	CK.	-1	1	1	•	1	nd i	C.		
4. Suicide	-	1	-	+	1	1				-	1	1	CI	İ	1	10	-	1	:	-	:	69	C4	10	_	
5. Execution	-	1	1	1	1	1		1	-	:	1	1	1	i	1	1	1	1	1	1	1	1	1	i		
6. Violent Deaths	04	1	10	=	10	10	9	+	-		63	-	10	i	1	5	04	01	4	9	0	2	7	38		
CLASS I,—ZTMOTIG	4	-	76	147	110	88	7.4	35		10	93	-	93	00	40	546	88	-	83 13	133 68	8	8	8	684	28	
IORDER 1. Miasmatic	4	-	76	147	107	87	13	35	- 1	9	6	-	92	60	10	546	82	-	83 13	31 67	7 67	8	78	199	8	
1. Small-pox	-	1	İ	1	1	1	:	-1		4		1	;	i	i	;	1	1		-	1	1	-	7	1	
2. Measles	60	1	*	1	1	00	00	64	-	-		1	09	1	1	*	04	1	1	1	-	1	1	25	:	
3. Scarlatina	1	i	-	61	7	0	•	;	74	00	01	i	83	i	1	0	=	1	55	65	G1	90	00	\$	:	
4. Diphthoria	88	1	8	80	5	8	1	13	- 4	:	90		2	1	01	148	00	1	22	13	13 41	4	6	137	75	
6. Qulnsy	1	1	1	-	1	:	-	;		1		1	÷	Ť	1	24	÷	+	•	- 0	_	1	1	-	i	
6. Oroup	04	1	10	10	18	1	60	4	100		-	1	7	İ	T	18	9	1	4	12	D1	01	01	81		
									İ											l			l	l	I	

TABLE XVI.—Continued.—Causes of Death, Classified.

Causes of Death,—1890.	Midland.	Missaukee.	Мопгое.	Montealm.	Muskegon.	Mewayro.	Oakland.	Осевпа.	Ogemaw.	Ontonagon.	Osceola,	Osecoda.	Ottawa	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shlawaesco.	St. Chair.	St.Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
7. Whooping-cough	G#		1	00	Q1	-	9	4	1	1	1	1	:	-		1 7	6 15		1 00	80	93	01	7	7	47	
(Typhold Fover	-	1	17	2	00	9	=	-	-	:	19	1	:	01	-	18			9	7	9	7	150	13	37	
8. Typhus Fever	i	1	1	-	1	i	1	-	;	+	1	1		-		-	1	-		1	1	i	1	1	-	. !
Typho-malarial Fever	1	1	i	1	1	i	1	1	1	1	1	+	!	-		- 1		-		-	1	1		-	1	
9. Erysipelas	į	;	*	80	00	1	00	-	1	-	-	1	1	-	-			į	04	00	9	64	-	*	13	_ :
16. Puorperal Fever	1	1	-	i	64	1	1	1	+	1		1	1	-	-	- 1	1	1	- 6	-	7	1	-	-	60	_ ;
11. Carbuncle	1	1	1	1	i	-	i	i	1	+	-	-	1	1			i	1		- !	1	1	1	. !	1	_ :
12 Influenza	1	1	1	1	1	i	1	i	1	1	1	1	1	1		- 1	1	i		1	1	1	1	1	1	
13. Dysentery.	-	-1	64	60	40	-	*	1	+	-	-	-				_		-	_	800	i	-	01	2	55	
14. Diarrhea	1	i	20	7	01	64	64	-	1	1	1	1	1	0	-	13	60	-	80	4	63	1		7	120	_ :
15. Cholera Infantum	*	1	13	16	1	60	9	01	1	1	-	- 1		50		7	60	1	63	1	7	63	9	11	72	
Cholera Morbus		1	-	-	i	1	-	-	1	+	+	+		1		•	i	1		04	0+	1	- 1	80	00	_ ;
Cholora	1	1	i	1	1	1	i	1	1	1	1	1	1	1		14	1	1	~	-	1	1	1	1	64	
17. Agus	1	i	9	*	10	10	00	00	1	+	÷	1	:	-	-	00	1	i	-	1	20	2	20	60	6	
19, Remittent Fever	1	i	ю	1	6	1	17	-	+	1	01	1		10	01	_		1	•	10	9	01	-	64	20	
19. Rheumatism	1	1	-	1	04	-	00	-	+	-	1	1		+		00	_	1	-	01	04	1	01	10	22	
IOnden 2. Enthelic	1	1	1		1	-		-	1	:	+		1	1		- 1	- }	-	- '	-	1	1	1	91	=	:
1. Syphilis	1	1	1	1	1	-	-	1	1	1	1	-		1		1	1	1			-	1	i	CI	6	
Stricture of Urethra	1	1	1	1	1	İ	1	1	1	÷	+	+	1	1		1	1	1		1	1	1	1	1	-	

S. Hydrophobia																	-								
4. Glanders	İ	1	+	1	1	1	1	1	İ	1	1	+	1	1	1	!	1	1	<u>:</u>	i		1	i	1	į
L-Orden 3. Dietie	i	+	1		93		1	1	H	i	t	1	-	1		-	1	1				1	-	10	i
1. Privation	i	1	1	1	1	1	1	-	Í	1	-	+	1	-	1	1	1	1	- 1	1		ł	1	1	i
f Purpura	İ	+	1	1	1	1	1	1	Ì	1	1	+	1	1	1	1		1	- 10	1		1	i	i	
2. Rachitis	i	1	1	1	1	1	1	1	-	t	:	+	1	-	1	1	1	1	i	1		i	1	1	į
(Scurvy	i	1	÷	1	1	1	1	1	i	1	1	1	1	-	1	1	1	1	1	1	- 1	1	1	1	i
3, Del'm Tremens (Alcoholism)	1	1	1	1	i	1	-	1	1	i	+	1	-	-	1	1	1	i	:	i		1	1	-	į
4. Intemperance	1	1	1	_		1	-	1	i	+	+	+	1	-	1	1	1	1	-	-1			-	4	-
5. Opium Eating	i	1	+	1	1	1	1	1	İ	:	+	1	-	1	1	1	1	1	.1	1		1	i	1	
IOnden 4. Parasitic	i	+	+	1	1	- [	- }	1	Ì	-	1	1	1	_		-	ı	i	- 3	- 1		÷	1	-	
1. Thrush	1	+	+	1	1	1	-	1	1	1	+	+	1	1	1	1	1	1	:	1		i	ì	1	
2. Worms	1	+	- !	1	1	1	1	1	i	1	1	1	1	1	1	_	1	1	•	i		1	į	-	
3. Disease of Scalp	1	1	+	+	1	1	1	1	i	1	;	1	1	1	1	1	1	1	L	1		1	1	1	
CLASS IICONSTITUTIONAL	=	7	26	38 30		67	30	9	9	13	-	1	89	00	1 113	3 41	1	25	57	9	33	83	88	439	Ξ
II ORDER 1. Diathetic	01	;	-	9	8	15	10	-	10	10	;	1	12	-	1 13	-	1	7	21	12	-	00	17	27	_
1. Gout	1	+	1	1	1	1	1	1	1	1	7	+	1	1	1	1		i	-1	- 1	1	1	1	1	•
, Anamin	1	1	+	1	1	1	1	1	1	1	+	1	-	1	1	-	1	1		1	1		1	1	;
\ Dropsy	-	1	0	9	60	0	9	1	60	10	1	-	10	-	_	6	1	1	9	9	04	*	00	88	-
8, Cancer	-	1	-	1	64	1	01	1	01	1	1	1	19		_	89	1	9	10	*3	*	4	21	33	;
4. Noma (Canker)	1	1	-	01	1	1	7	i	1	1	+	1	:	1	1	C+	1	1	1	1	-	- 1	-	99	:
5. Mortification	1	1	+	1	-	1	-	1	İ	1	1	1	1	1	1	-	1	1	1	-	1	1	-	1	:
IIORDER?, Tubercular	o.		55	35	11	55	30	4	-	00		-	62	e.	100	25		18	\$	80	23	8	=	357	2
1, Scrofula	1	1	04		-	1	-	İ	1	-		-	G1	1	1	01	1	1	6,	-	4	04	1	01	-
2. Consumption of Bowels	İ	+	-	-	-	1	1	1	1	-	-	1	-	1	1	1	1	-	1		64	1	-	1	;
8 Phthisis (Consumption of L'es)	G	-	88	20 07	0	200	ä	*	-		-	_	9	6	100	30		15	43	36	96	60	ş	223	9

TABLE XVI.—Continued.—Causes of Death, Classified.

												Cop	COUNTIES1880.	. 68	1880.											
CAUSES OF DEATH,—1880.	Midland.	Missaukee.	Моптое,	Montcalm.	Muskegon.	Newaygo.	Oakland.	Осеапа.	Ogemaw.	Ontonagon,	Osceola.	Oscoda,	Ottere.	Ottawa.	Presque Isle.	.wantana	Sanilac.	Schooleraft.	Shlawassee.	St. Clair.	St. Joseph.		Tuscola,	Washtenaw.		Wayne.
4. Hydrocephalus	-	-	- [	1	1	1	1	-		i	1	1	1		:	1	;	04	1	1	1		1	1		1
6. Marasmus	1	1	1	i	1	1	1	1	i	ì	1	1	+	÷	1	1	1	+		01	+	1	÷	+	-	55
CLASS III.—LOCAL DISEASES	8	64	167	20	23	61	109	35	9	16	8	1	-	93	-	4	961	25	64	9	76	18	99	74 3	131	\$65
III -ORDER 1. Norvous System	*	7	38	65	15	10	42	6	G4	01	7	1	1	52	10	-	88	01	-	10	95	52	6	55	37	108
1. Cephalitis	1	-	7	92	9	-	-	7	1	i	1	1	1	139	-	-	15	63		Q4	9	9	*	10	NO.	67
2 Apoplexy	1	1	64	00	1	04	00	1	i	i	1	:	1	00	1	-	-	-	-	C4	01			-	*	=
& Paralysis	1	i	9	7	i	04	=	i	i	1	1	1	1	*	1	-	15	00	-	90	63	6	-	NO.	63	5
4. Insanity	1	1	1	1	1	1	Ť	1	1	i	1	1	+	+	1	1	- 1	-	- !	-	-	- 1	1	-	+	1
5. Chorea	-	1	1	1	1	i	-	1	1	i	1	1	1	-	1	:	-	1	1	1	+	-1	:	1	-	- 1
6. Epilepsy	-	1	1	,	-	1	7	-	1	-	-	1	1	-	1	-	:	01	:	-	-	-	-	-	-	40
7. Tetanus	1	1	1	-	1	1	•	i	1	i	1	1	1	1	1	+	1	+	1	+	+	- 1	÷	+	1	-
8. Convulsions	1	1	10	9	10	60	19	-	1	-	-		1	10	4	-	75	01	-	-	9	61	-	-	10	88
Brain Disease	_	1	15	04	60	04	90	01	-	1	-	1	1	00	+	-	18	1		60	90	00	:	00	9	=
Dropsy of Brain	1	1	1	-	-	į	-	1	-	Ť	1	1	1		+	- 1	04	1	1	+	+	1	04	÷	-	4
10, Spinal Fever	80	1	i	=	1	1	-	80	i	1	-	1	1	1	+	+	:	=	1	1	1	04	1	-	÷	÷
11. Spotted Fever	1	1	1	1	-	1	•	İ	1	i	1	1	1	1	1	-	-	1	- 1	i	+	1	+	1	+	1
12. Meningitis	1	1	-	1	1	1		-	1	1	1	1	+	1	1	:	4	-	- 1	- 1	+	-	+	÷	-	04
13. Meningitis, Gerebro-spinal	1	1	i	1	1	-	٠	i	İ	i	1	1	1	1	+	1	1	1	+	1	1		+	1	÷	Ť
14. Meningitis, Spinal	1	1	-	60	1	1		1	1	i	1	-	1	+	1	:	-	1	1	-	_	01	-	;	C4	17
15. Neuralgia									i	i	i	-	+		-	-	-	-	-	-	-	-:	+	÷	-	i

16. Spine Diseaso	İ	1	Ť	7	7	4	1	7	•	÷	1	1	-		1	-		ī	i.	Y	÷	İ	1	1	
17. Spine, Inflam. of	i	i	1	-	1	1			•	÷	1	- 1			1	•		1	1	- }	i	i	1	-	
18, Frightened	i	Ť	1		-	1			- 6	-	1	1			1			1	:	1	i	Ť	i	1	-
IIIORDER 2. Organs of Circulat'n	-	-	22	*	80	96	3	-	4	-	+	-	. 0		2	9			10	80	0	6	16	68	- 1
1. Perioarditis	-	1	64	01	- 1	7	*	1	- 1	-	1	1			1	-		60	-	-	04	Q1	93	6	- 4
9. Aneurism	i	+	1			1		1.00	1.41		1	- ;	-	-	-	•		1	;		1	i	1	1	-
3. Heart Disease	00	1	13	01	00	21	9	-	10		+		9		54	10		*	6	-	00	-	13	98	
4. Emboli	İ	+	1			1	- 4	- 1	4	•	+	1	+	_	1	•		1	:	1	i	1	1	1	
IIIORDER 3. Respiratory Organs.	9	1	30	4	18	8	*	01	7	65	-	-	30	61	2 56	15		6	35	30	30	88	4	102	9
l. Epistaxis	İ	i	I	1	1	1		> n.	7.00	,	1	1	;		1	=140		1	1.	1	1	i	1	1	
2. Laryngitis	i	i	1		•	4	•	7	•	-	1	:	-		1	-		1	H	- 1	i	i	1	+	
3. Bronchitis	1	1	-			1	6		01	01	1	7	-		-		- 6	1	1	:	60	01	•	22	- 1
4. Pleurisy	i	i	7		-	04	-			- 1	1	1			1				-	60	-	i	. !	04	
5. Pneumonia	9	1	15	-	51	17	-	64	п	10	1	-	61	-	65	10	-	80	31	5	11	50	35	96	10
6. Asthma	i	1	64			-		•	-		1	1	+			-	٠	-	1	-	1	1	-	10	-4:
7. Lung Disease	i	1	-	-	10	9	C4	11		-	1	1	9		7	*	•	0	69	•	00	9	a	40	
g. Catarrh	İ	1	1		-	-	*	•		-1	1	1	-		1	, k	•		1	-	-	1	1	-	
III ORDER 4. Digestive Organs	-	1	15		21		=======================================	-	10	69	i	1	. 22		56	1	•	S)	18	6	*	10	61	8	- 40
1. Gastritis	i	1	1		-	04	7			1	1	1				CI	•	-	1	1	:	-	-	10	
2. Enteritis	50	1	10	10	9	31	63	*	40	01	1	1	9		-	9	- 1	60	1-	60	60	10	10	96	
3. Peritonitis	i	i	:	-	- 4	1	1			1	-	:	1		1	- 1	2.4	-	-	1	-	1	-	1	
4. Ascites	İ	t	1	1	1	1	1	1.	140	1	1	1	1	_	1		381	č	1	-	1	1	i	-1	
5 Ulceration of Intestines	İ	i	1	1	1.4	1		**.	2 (	1	1	+	;		1	14			1	;	1	-	1	-	-
6. Hornia	İ	1	-		-	-	olo		100	1	1	+			1	1	- 10	1.5		1	1	1	1	1	
7. Obstruction of Bowels	İ	1	-	1	- 1	1	1	4	•	1	1	-	1		1	1	= ¥:		1	1	1	i	1	01	-
8. Intussusception	Ì	İ	1	-	:	1		•	-1	i	+	+	1	1	1		34	1	i	1	÷	i	1	+	
									-											1					1

TABLE XVI.-Continued.-Causes of Death, Clussified.

9. Stricture of Intestines	Missaukee.	_						-		_	-		1	-	-			_	-	_	_			-	-
9. Stricture of Intestines  10. Fistula	1	Monroe.	Montcalm.	Muskegon.	Newaygo.	Oakland.	Оссапа.	OEcmaw.	Ontonagon.	Osceola.	Oscoda.	Ottowa.	Presque lele	Roscommon	Saginaw.	Sanilac.	Schoolcraft.	Shlawassee.	St. Clair.	St. Joseph.	Tuecola.	Van Buren.	Washtenaw	Маупе,	Wexford
10. Fistula	1	. !	1	1	1	1	i	1	1	+	- 1	1	i	1	n const	1	_		-	1			_	:	+
11. Stomach Diseases.	1	1	1	i	-	1	i	1	1	1	+	+	+	1		-	_			- 1	1	1	- !	:	- 1
12. Pancreas Disease	1		2	-	i	*	i	1	i	+	- 1	-	9	-		64	-		-	15	1	1		99	#
	1	1	1		1	1	1	1	1	1	1	+	1	-	-		1	1		-	-!	-		1	+
13. Hepatitis	1	1	-1	1	1	ī	1	1	1	1	-	-	-	1		i	1	_	_	01		-	1	•	G#
, ( Biliary Calculus	-		1			1	i	1	1	1	-1	- 1	- 1	-		i	1	1		1		- !	+	-	+
Jaundice	1	1	1	-	1	-	C1	1	1	+	-	1	-	4			i	1		1	1	1	-	-	01
15. Liver Disease	-	_	01	-	-	99	1	-	1	1	1	- 1	61	-	_	-	64		-	19	:	-		C1 '	61
16. Spleen Disease	4	-	-	-	1	1	-	1	1	1	- 1	- 1	- 1	1	100		1	1	0.174	- 1	4	- !	-		1
17. Bowel Diseases, etc	-	1	-	20	1	-	i	1	1	1	-	1	1	1			-	_		1	-		Q1	64	*
18. Mouth Disease	1	1	1	•	1	1	i	1	i	1	:	1	1	1		1	1	-		1	1	1	+	1	+
IIIORDER 5. Urinary Organs	74	-	10	-	C1	7	94	+	:	01	-1	- 1	00	-		-	1		-	_	*	0	64	69	19
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2. Ischuria	-1	1	1	-7	1	1	1	i	i	1	1	- :	-	+			1	1	- iv	1	1	1	1	-	:
3. Bright's Disease of Kidneys	1	,	1 1		i	7	i	i	7	64	1	1	90	1		01	1		*	1		-	-	177	10
4. Diabetos	-			- 14	-	-	1	i	t	+	1	1	- ==	1			-	1			-	+	_	60	+
5. Calculus (Gravel, etc.)	1	1	1	•	-	1	i	1	1	1	1	÷	+	1	-	_		1		1	1	,	-	-	÷
6. Cyatitis	1	-	1	,	1	1	İ	i	1	1	1	+	1	1		1	1	1			-	-	ŀ		60
7. Kidney Diseases	-	_	-		1	04	C4	i	1	÷	1	-	04	1			1	_	04	155	Ci	1		10	10
IIIORDER & Generative Organs.	-		C1			-	i	i		04	+	-		- 1		i	_	E.	_	-	_	-	_		

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L. Still-born 1 2 34 20 7			4	90	9	1	7	9	1	1	55	100	-	89	01		12	2	2 15	5 17		9 134	*
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Premature Birth	_	1	1	1	-	i	1	-	+	:	1	-		00	1	1	1	99		04	1		-
3, Oyanosis	1	1	-	i	1	i	1	1	1	+	1	1	1	1	1	1	i	1	_	1	1	1	1
4. Spina Bildda	1	1	1	1	Ì	-	1	1	1	1	1	1	1	1	1	!	1	1	i	1	i	1	1
5. Other Malformations	1	1	1	1	1	i	1	1	1	-	-	-	-	1	1	1	i	1	i	_	1	1	1
6. Teething	_	1	1	г,	i	1	P	1	1	1	1	1		9	1	1	*	1	i	1	1	-	17
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TABLE XVI.—Continued.—Causes of Death, Classified.

												000	COUNTIES.—1880.	, a	280											
CAUSES OF DEATH,—1880.	Midland.	Missaukee.	Monroe.	Montealm.	Muskegon.	Newsygo.	Onkland.	Oceana.	Ogemaw.	Ontonagon. Osceola.	Oscoda	.ogsetO	.awaiiO	Presque Isle.	ковсоштоп.	Wanigad	Sanilac.	Schooleratt.	Shlawassee.	St. Clair.	St. Joseph.	Tuecola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
IVORDER 3. Dev. Dia. of Old People.	10	-	22	O.	*	=	22		1		01	i		6	1	গ্ৰ	1	1	133		16	90	9	54	96	04
1. Old Age	00	-	13	6	+	=	22	-	+	1	91	1	-	6	1	83	.7	1	13	17	36	90	9	5	96	61
IVORDER 4. Diseases of Nutrition	i	1	9	-	60	1	-	-	-	1	1	- 1	-	O1	- 1	7	*	- 1	- 1	00	01	+	1	00	83	- 1
1. Atrophy and Debility	İ	1	9	T	93	1	н	-	1	1		1		01	1	4	4	1		60	O1	Ť	1	60	53	1
CLASS V.—VIOLENT DEATHS	6	1	5	13	18	00	13	=	69	-	-		1 19			57	00	*	10	12	01	00	14	7	118	•
V ORDER 1. Accident or Negligence	7	1	9		13	60	7	7	=		-	1	13		-	31	9	Ci	9	00	10	00	1	10	20	00
l. Fractures and Contusions	C4	i	1	i	-	1	-	1	+	1	1	-	1	1	1	-	1	-	1	;	:	-	-	:	20	d
2. Wounds	1	i	1	- 1	-	i	1	1	-	1	1	-	1	1	1	94	-	1	-	:	-	1	-	-	00	-
3. Burns and Scalds	-	1	00	01	-	04	H	1	1	1		1		01	1	04	1	1	64	4	01	1	i	-	10	-
4. Poison	1	1	-	-	-	1	-	1	+	+	-	1		01	1	00	1	- 1	1	;	i	1	~	-	-	1
5. Drowning	G ₃	1	64	60	10	-	*	10	1		20	į		-	1	17	60	-	01	00	04	-	60	-	24	7
6. Suffocation	1	1	-	1	1	1	1	1	t	1		1	-	1	1		-	i	-	4	:	-	1	-	01	1
7. Otherwise	01	1	60	-	•	1	1	01	+	1	-	j,	-	1	•	9	7	-	-	1	1	1	64	-	12	1
VORDER 2. In Battle	1	T	1	- 1	i	i	Ť	Ť		+	1	ı	1	1	_	4		- 1	1	1	-	1	1	÷	i	1
VOuder 3. Homicide		1	1	1	i	1	i	1	1	1	1		1	- 1	1	- 1	1	-		-1	4	1	1	1	01	1
l. Marder	1	1	1	1	i	1	Ť	1	1	+	1	1	1	1	1		;	1	1	1	i	1	1	1	64	1
VOkurr4. Suicido			7	-	i	T		i i	+	+	1 1			04		ю	-			-		Ti	24	65 -	9 7	- 1

3. Drowning.         4. Hanging.         5. Otherwise and not Specified.         9. Otherwise and not Specified.         1. Hanging.         9. Otherwise and not Specified.         1. Hanging.         1. Hanging.         1. Hanging.         2. Hanging.         2. Hanging.         3. Hanging.         4. Tumor.         3. Self Abuso.         4. Tumor.         5. Otherwise and not Specified.         9. 3 21 2 5 53 11 1 13 13 11 13 1 46 6 8 73 21 2 5 6 0 10 10 10 16 15 224 10	2 Polson	٠		:		1	1	1				-		į	1	•	1	7	1	ī		1	_	1
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9 3 21 2 61 36 11 1 13 1 46 6 8 75 21 26 60 10 16 15 224	3. Self Abuso					1	1	-	1	- 1			1		1			:		-				1
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TABLE XVII.—Exhibiting, by Sex, by Months, by Specified Causes, and by Ages in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year ending December 31, 1880; also, by Sex, and by Specified Causes, the Number of Persons Returned as having Died during each of the Years 1876 to 1880, inclusive (Still-births included). The foot-notes in this Table refer only to the Year for which the Report is made, unless otherwise stated.

-	1	Unknown.	353	183	134	10
		80 and over.	623	355	284	1
		.08 ot 67	511	296	215	1
		.87 or 07	568	339	229	1
	œ.	.07 ot <b>8</b> 8	564	334	230	1
	2	.88 01 09	557	330	227	i
	18.8.	.09 ot 33	474	269	205	1
	Y BA	.čā ot 0ā	116	261 241	175	1
	AGES IN PERIODS OF YEARS.—1830.	45 to 50.	461	26	197	- }
	80	40 to 45.	460	235	253	1
	K IO	.01 of 38	929	260	935	- 1
	PE	80 to 35.	513	945	508	1
	NI N	25 to 30.	603	3 268	3335	1
	GES	20 to 25.	089	206 316	361	- 1
	۷	J5 to £0.	643		347	:
		10 to 15.	889	1 304	3 284	:
		.01 ot 8	=	691	593	1
E3		Under 6.	12576 6433	3319	2872	4.9
AUS		.8781	12576	6756	5761	59
ננ ס		.1751	12919	6827	0709	22
DEATHS FROM ALL CAUSES.	YEARS.	.8781	12766	6632	6003	55
FRO	Į,	1879.		7522	8189	52
LTHS		1880.	16102 14407	8645	7410	47
) 30		Unknown.	43	33		- 1
_		December.	1617	852	758 15	-
		Хоуешрет.	1486	825	199	20
		October.	1471	795	671	43
		September.	1676	907	761	10
	1850.	August.	1780	939	833	t-
•	Моитня, 1850.	July.	1597	836	688	00
	Mon	June.	1036	553	679	4
		May.	9911 (	619	545	40
		April.	1289	683	603	- 44
		March.	114	100	515	1
		Гертиату.	800 1005 1140	556	442	7
		January.	800	451	407	CI
		SEX.	otal	Males	Females	Cak

TABLE XVII.—Continued.—Apecified Causes of Death.

				MC	MONT	118,	18	1880.							-	YEARS.	*				_		4	GE	1 10	×	AGES IN PERIODS OF YEARS.—1880	RIO	DS	0	X	EA	RS.	7	880		
SEX.	.Vianual.	February.	April.	.Yald	June.	July.	August.	September.	October.	November.	December.	Опклочп.	1880.	'628T	1878.	.1781	79281	-	1875.	CAUSES OF DEATH.	Under 5.	5 to 10.	.čI o10I	15 to 20,	20 to 25.	.05 to 30.	20 to 27	.01 to 40.	40 to 45.	45 to 50.	.66 ot 06.	.00 01 60	.60 to 65.	65 to 70.	70 to 75.	108 01 94	Suand over. Unknown.
Females	1	1	-	- 1		-	1	-		-	-	:	9	12		1+	9	-	10	Abortion		1	1		- 1	-	00	- 1	- 1	-	1	:	- 1				
Males	:	1	- 1	- 1	- 1	1	- [	1	- ;	-	-1	:	1	1	1	1	1	1	1	Abscess of Abdomen	-	-!	- ;	_!	- 1	1	- 1	- 1	- 1	:	-	- 1	1	- 1	- 1	Ť	+
remales		1	- :	1	1	1	1	;	1	-1		i	1	į		1	1	:	-		1	- ;	- 1	1	1	1	-1	- 1	4	- 4	4	- 1	;	- 1	-	:	+
Females		1		×	1	1	- 1	1	1	- ;	1	1	1	i		-	1	1	1	Abscess of Arm	1	- ;	+	1	)	- 1	:	- 1	- 1	- 1	1	- 1	1	- 1	i	1	+
Females	1	1	- 1	- 1	- 0	1	1	:	1	-1	- 1	:	:	1	- 1	-		-	1	Abscess under Arm	1	1	1	1	:	;	1	- 1	- :	1	1	-1	1	1	:	1	÷
Males	1	- 1	:	- ;	1	- 1	1	:	;	- 1	- 1	Ť	;	1	_	1	1	:	1	Abscess of Back	_	-1	1	:	- 1	1		1	;	- ;	:	:	:	-:	-	1	+
Females		1	- 1	1	1	1		- 1	1	1		-	1			-	- :	- 1	-		1	- :	- 1	1	- 1		-1	- 1	- 1	- 0	-1	:	1	-	i	1	
Inles		1	+	- 1	- 0	1	1	1	-	1	1	:	1		1	-	1		1	Abscess of Bladder	1	:	- 1	1	-1	- 1	1	- 1	:	1	-	- 1	1	7	i	- 1	- 1
Total	:	-:	- 1	- 1	- 1	1	-1	1	-	1	-	-	20				10	CI	7	Abscess of Bowels	- !	1	- 1	1	-1	-:	1	-	:	;	;	-	-	- ;	÷	1	+
Males	1	-	-	:	- }	;	- 1	- 1	-	- 1	-1	1			1		-	64	1		1	-:	1	-1	- 3	- 1		-	1	:	Ţ,	:	-	1	÷	1	+
Females	1	1		- 1	- 1	1	1		1	1	-	:	1	1	1		1	-	н		-	+	- 1	:	- 1	- :	- ;		- 1	- 1	1	-	- 1	1	i	i	÷
Males	i	1	1	- :	-4	:	7	1	1	1	T	-	-	Q1	**	-		90	A	bscess of Brain	1	1	1	-	- 1	- 1		1	- 1	1	1		-1	1	Ti.	1	+
'emales		1	1	:	-1		:	-	-	1	1	÷	1	1	1	1	- ;	;	1		1	1	:	1	- 1	•	1	-	- 1	- ;	- (	;	1	1	1	i	1
Tales	:	:	1	1	-1	:	;	1	1	-	1	i	1	1		-	1	1	1	Abscess of Ear	1	1	:	1	.1	1	1	1	1	- 1	- 1	1	1	1	i	1	1
Males	1	1	-	:	1	1	- 1	1	:	1	1	-	:	7		1	1	1	T	Abscess of Groin	1		1	1	1	, 1	1	1	1	-	1	- 1	1	i	÷	1	÷
Females	- 1	:	1	:	- 1	- 1	:	1	1	:	1		1	1	1	_!	-	-	1		1	-!	1	:	1	14	1	1	1	- 1	1	- 1	1	i	1	1	+
Males	i	:	1	:	- ;	:	:	1	1	-	1	-	1	1	1		-	-	A	bscess of Head	-	- 1	1	;	- ;	1	- !	1	. :	. :	:	- 1	1	1	-	- ;	+
Females	;	1	1	;	_ ;	- 1	- )	1	- (	- 1	-	1	1	-	1	1	-	-	-1			-:		1	- 1	1	1	- 1	7	1	1	- 1	1	1	i	1	- 1
Iales	;	1	1	- ;	4	1	-	1	1	-	-		C1		1	-		-	1	Abscess of Hip	1	- 1	1	1	-	:	-1	-	;	- 1	-	1	1	i	÷	1	Ť
Females	i	+	11			9	I	1		I	_				_	-		-				_															7

TABLE XVII.-Continued .- Specified Causes of Death.

				Момти	N	118	1	1880							YEARS	RS.						7	VO	AGES IN		PE	PERIODS OF	OD	8 0		YE	YEARS.	I	-1880.		
S E X	January.	March.	April.	May.	June,	July.	August.	September.	October.	November	December.	Unknown.	1880.	'6281	18181	.7781	1876.	1876.		CAUSES OF DEATH.	Under 5.	01019	10 to 12.	15 to 20.	.62 01 02	25 to 30.	30 to 35.	1 35 to 40.	40 to 45,	45 to 50.	.66 ot 06 .08 ot 66	.60 to 65.	.07 01 68	70 to 75.	,08 ot 67	So and over.
fales	1	1		-:			- 1		- 1	- :		1	-	-	-		1		A.b.	Abscess, Internal	-1	- 1	- ;	-1	1	- ;	-	;	1	1		1	1	;	1	:
otal	1	- 1	-:	0.	:	- 1	1	- ;	-	- :	- ;	- 1	90	64	1	1	1	- 1	Ab.	Abscess of Kidneys	- 1	- ;	- (	:	- 1	1	:	-	-	-		-	- 1	- 1	- 1	-:
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TABLE XVII.—Continued.—Specified Causes of Death.

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			ļ	Ä	MONT	rus,		1880.						YEARS	88.					4	OE	AGES IN		BRI	ē l	PERIODS OF		YEARS1880	88	<b>~</b>	. 8		1
SEX.	January.	February.	March.	May.	June.	July.	August,	September.	October.	November. December.	Пркромр.	1830,	.6781	.8781	.7781	1878.	.8781	CAUSES OF DEATH.	Under 5.	10 to 15.	12 to 50.	30 to 32.	708 01 97	30 to 85.	35 to 40.	40 to 45.	.68 to 65.	.09 os 60,	60 to 65.	1 65 to 70.	75 to 80.	.19 vo bas 08	Дикиоми.
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10 8	92 20	22 24 25	- 267	237	214 226	239	818	218 Bowels, Inflam, of	105 10 13 13 25 12 19 14	4 4 6 5 10 12 9 10	3 3
	18 17 18	15 17 14	120	117	129	126	113		57 5 7 7 14 8 6 4	4 3 4 4 7 7 6 7	9 1 1
Females 7 7 12 12 5 15	14 9 13	7 7 11	111	120	105 97	111	100	;	48 5 6 6 11 4 6 10	10 1 2 1 8 5 8 8	64
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Females	1		-	1	01	1			1	1 1 1 1 1	1

TABLE XVII.—Continued.—Specified Causes of Death.

				Ä	Months,	Į		2	<u>.</u>						×	Y EARS.	,						4	3	80 60	Z	7	FRI	AGES IN PERIODS OF YEARS.—1880.	ž.	<u> </u>	×	Ä	i	8	<b>.</b>	
SEX.	Tannant I	February.		.naga	May.	- Yul	August.	. September.	October,	November.	December.	Unknown.	1880	,6781	'828T	'LL81		'9281	1879*	CAUSES OF DEATH.	Tader 5.	1	01 01 01	10 to 10.	68 01 08	.62 01 02 1	28 01 08 1	20 10 22	.04 o1 d8	40 to 45	45 to 50.	60 to 55.	.60 01 00 [	.07 63 68	70 to 75.	'08 01 92	SUandover.
Males	- :	1	1	1	- 1	- 1	-1	- 1		1	- 1	_1	Î	_ i	- 1	1	-	01	01	Bowels, Paral of		-		+	:	- 7		÷	-	-	- ;	1	- 1	- ;	_1		- 1
Males		1	1	- :	- 1	-1	- 1	- 1	-	1	1	- 1	1	- 1	- 1	1	-	1	1	Bowels, Perforation of	-1	( )	-	÷	1			÷	:	1	1		-:	- 1	1	- ;	1
Females	- !	1	- 1	1	1	1	1	-1	1	1	- 1	- 1		!	-	-	-:	-	1		1		1	+	- :	- 4		+	+	- 1	- 4	1	1	1	1	- 1	- ;
Males	1	:	_	-	- 1	- 1	1	_		1	1	-1		01	-	-	1	1	i	Bowels, Rupture of	- 1	_	1	+	1	-		-	1	- 1	4.	-	7	1	-1	1	- 1
Females	1	1	1	1	:	-1	1	-	-	- 1	- 1	- 1	-	_	1	1	+	1	1	Bowels, Scrofula of	1	-	1	7	-			7	- 1	- 1		1	- 1		1	-1	î
Males	i	1	1	1	- 1	- 1	- 1	1		1	- 1	:	1	1		-	-	i	1	Bowels, Stricture of	1	-		1	7	-	4	Ť	3	7	4.	1	1	-		- ;	- 1
Total	01	1	-	_	01	- 1	- ;	-	-	Ç.	01	-1	10	1	,	-	Q4	4	7	Bowels, Ulceration of	-	10		1	1 5	- 1			-	-		-	-	- 1	1	-}-	:
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Males	<del>:</del>	<del>-</del> -			÷	$\div$	<u>:</u>	:	i	-:				•	i	-	Brutal Treatment	_:	:	<del>-:</del>	<del>-:</del>	:	<del>-</del> :	<del>:</del>	:	<u>:</u>	<del>-</del>	-		<u>:</u>	
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TABLE XVII.—Continued.—Specified Causes of Death.

				Ä	Month	Ţ	8, 1	1890.							YE	YEARS.						₽ď	E 8	AGES IN		PERIODS OF	õ	90	Ö		YEARS1880.	Σ. 58	7	8	_	
SH X.	January.	February.	March.	April.	June.	Jaly.	August.	September.	October.	November.	December.	Опклочи.	19801	1879.	.8781	.7781	.978£	,5781	CAUSES OF DEATH.	Under 5.	.01 ot 6	10 to 15.	12 to 20.	50 10 32	25 to 30.	30 to 39'	22 to 40.	40 to 45.	45 to 50.	.66 ot 06	.00 of 66	,60 to 65,	1 65 to 70.	,er og er	1 75 to 80.	SO and over.
Females	01	99	-	-	61	- 1	-	-0	-	00	61	1	17	25	81	61	55	864	Burning	80	04	- 1	-	-	-	- 5	64	- ;	1	e.	-3	-1	- 1	1		1
Unknown.	1		1	1	:	- 1	:	- 1	- 1	- 1	1	:	i		- 1	1	64	1		1	1	:	1	- ;	- ;	1	1	1	-1	- 1	- 1	1	:	1	1	:
Females	- 1	Ý	-;	1	1	- 1	1	:	:	- 1	- 1	-1	1	1	1	-		1	Calculus, Hepatic	1	:	:	:		1	1	;	1	;	- ;	1	- 1	;	-1	Ť	-
Males	-8	:	÷	1	1	4	:	1	- 1	- 1	- 1	- 1	1	1		-	1	1	Calculus, Renal	-	1	- 1	;	- 1	:	-1	- 1	:	I	0.	1	4	1	:	i	:
Total 12 16 16 10 32 17	21	9	42	-67	2	38	55	55	55	64	2	-	28	979	269	265	241	202	Cancer.	10	-	-	95	61	9	1	16	23	50	83	23	36	65	53	17	00
Males	9	œ	-	27	26	=	10	16	55	=	40	-	Ξ	124	116	124	118	72		*	-1	1	-	-	91	-	-	4	=	9	65	10	9	7	01	60
Females		6 10 10 11	0	92		8	55	13	92	9	16	- 4	173	148	158	3	123	130		9	-	-	04	-	+	9	G	19	95	53	5	17	20	6	-	40
Total	1	1	01	100	G4	-	9	10	10	-	- ;	- 1	22	52	25	30	39	13	Canker (Noma)	8:	-1	-1	1	-!	1		- 1	Ji	- 5	4	-	-	:	- (	-	1
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Females	- 1	1	-1	24	01	61	00	- 1	00	:	- 1	:	=	9	=	2	16	19	:	6	-4	- 7	ĭ	,¥	- 7	- 1	1	-:	- 1	1	Ţ	-	4	1	7	- ;
Unknown.	4	-	-	1	:	- 1	_	:	- :	- 1	1	- 4	-	-	1	- 1	1	ì	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	_1	- ;	- 1		1	- 1	1	- 1	- 1	- 1	1		- (	4	1	4
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Females	1	:	1	1	- 1	-	1	-	- 1	- 1	-:	1	1	- 1	-	i	1		Cardialgia	- 1	:	;	1	- 1	1	1	-)	:	1	1	:	- 1	.1	1		1
Males	1	1	1	i	1	-	4	- ;	:	-	1	1	- 1	i	1	1	-	-	Carles of Joint	1	1	:	:	:	1	4	1	1	1	1	:	- 1	- 1	:	:	:
Total 16 15 22 22 22 24 3	16	42	21	21	21	00	35	9 10	38	36	器	-1	310	515	207	21	999	215	Casualty	201	13	16	45	20	30	100	55	æ	17	90	Ξ	13	10	6	9	
Males 14 19 20 17 20 21 28	11	9	- 0	-	0	- 4	60	555	85	80	37		301	100	187	195	197	105	100	13		52	43	- 55	30	96	70	86	17		7 11 14	7	00	w	*	4 113

Females 2 8 2	00	64	01	50	3.4	10	60	- 1	37 4	53	18 2	27 25		20 Causalty	*****	=		4 1	64	1 20	1 1	4	1	-	91	80	00	61
Unknown.	1	1	- ;	- 1	1	:	-		1	-		-	1	1				i	:	1	1	1	- 1	- ;	1	+	- 1	:
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Fomales	1	1	3		3	1	1		1	-			1	Chest, Inflammation in.	nation in	-1		1	+	- 1	1	- 1	_;	- 4		1	1	:
Total	1	1	- 1		4		1		04	01	-	1		3 Chicken-pox		04		1	:	-1	1		:	1	1	1	4	:
Males	- f	1	- 6		- 1	ì	4		-	-	-	1				-		i	;	- 1	1	- :	_	1	:	- :	- ;	:
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Females		8 14 19 15 gr	5	11	18	9	13 9	23	193 193	-	191	151	2	173 Childbirth.				4	23 35	35	30 35	4	. 7	1	1	1	:	8
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Total	01	00	9	6 5	21 0	7	1 1		9 89	9 99	7	75 55		62 Chills, Congestive	tive	16	61	63	01	- 1	5 3	34	4	10	*	10	9	:
Males	1	-	*	*	9	90	-	G#	25	30	83	39 97	12			9		-	-64	:	99		-	*	04	-	00	:
Femalos	99	09	01	-01	9	9	60		36	\$ 00 00	36	36 28		32		90	91	00	-	1	50	1	00	-	04	-	20	
Males	1	3	- {	-5.1	1		1		1		- 1	н	ŀ	Chlorine		1		i	- 1	3	4	1		:	;	+	1	:
Males	1	:	-1	1	1		:				1	1	-	Chloroform.		4		i	1	1	1	3	;	:	i	+	1	:
Females	1	1	:	35	1		1				-	-	1	:		÷		1	1	, i	4	H	1	1	:	:	4	:
Females	4	+	•	- 1	. :		-		1		-		1	Chlorosis		:		•	:	4	1	1	1	- 1	÷	÷	- 1	:
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Males		:	;	1	1.		1		-		7	-				-10		÷	1	1	-	:	1	:	1	1	1	:

· Includes 1 Hemorrhage from Childbirth.

TABLE XVII.—Continued.—Specified Causes of Death.

					SE C	INC	118,	NTHS, 1850.	<b>o</b> ;							A	YEARS.	s.						⋖	AGES IN PERIODS OF YEARS.—1880.	MI E	PR	1810	800	OF	YE	AR	Į.	1880				
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. Includes 3 from Insane Fits, I from Teething, I from Sun-stroke, and I caused by Internal Tumor.

TABLE XVII.—Continued.—Specified Causes of Death.

					Mo	MONTHS,		1880.							YEARS.	RS.				_		VO	AGES IN	N	PERIODS OF	TOI	80		YE	YEARS.	Ī	-1880			
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fales 45 3: 47	10	47	10	38 35	_	19	22	77	93	98	06	2 744	7111	396	999	151	105	***************************************	eo.	329 256	6 117	7 20	10	01	- 1		-	-	:	-	1	-	
emalos 54 35 52	25	60	53	33 47	_	99	59	87	93 10	1001	110	3 798	3 762	491	503	157	102		55	334 256	6 121	1 35	=	61	-	4	:	-	-1	;	i	-	
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emales	1	61	1		- 1	4	1	1	1	1	-1	C4	61	-	-	64	2	: :	1	1	-	:	-	:	1	- 0	1	1	+		1	. 65	
Potal	10	00	61	-	- 1	20	QI	*		QT	20	90	37	47	53	62	2	Dropsy of Brain	1	77			1	1	:	-	:			1	=	-	
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a Includes 3 "Diphtheritic Group."

TABLE XVII.—Continued.—Specified Causes of Death.

Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Grabard  Gra	YEARS.	-				AGES IN PERIODS OF YEARS, -1880.
	1876. 1876.	1876.		CAUSES	CAUSES OF DEATH.	5 to 10.   10 to 15.   10 to 15.   20 to 25.   25 to 30.   30 to 35.   30 to 45.   45 to 46.   45 to 46.   50 to 65.   50 to 65.   50 to 65.   50 to 65.
0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	5 4 9 Dropsy of Ches	Dropsy	Dropsy			
D	6 8 9	6			***************************************	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C	Dropsy, General	Dropsy, Gener	Dropsy, Gener	Dropsy, Gene	al	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0. 1. 0. 1. 1. 1. 1. 1. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1 1 "					
D	52 51 68 Dropsy of Heart	68 Dropsy	Dropsy		art	2 4 1 1 5 3 6 2 8 7 5 6 8
d).	23 32 36	38			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3 1 1 3 3 1 3 6
d)	29 19 32 " "	230				2 1 1 1 1 4 5 1 5 4 4 3 2
D	1 1 Dropsy of K				of Kidneys.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
d)	, ,					
d)	Dropsy of Limbs	Dropsy	Dropsy	Dropsy of L.	im bs.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
d)	" " T	:	:			
d)	Dropsy of 1	Dropsy of 1	Dropsy of I	Dropsy of 1	of Liver	
d)						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11 7 6 5 4 12 9 17 11 10 19 50 45 52 27 26 7 11 1 5 2 5 4 8 18 8 11 2 11 18 14 2 14 2 14 3 17 7 7 6 52 14 11 15 12	Dropsy, Scarlatinal	Dropsy, Sca	Dropsy, Sca	Dropsy, Sca	***************************************	
11 7 6 5 4 12 9 17 11 10 19 50 55 22 7 26 7 11 15 2 5 6 4 3 13 8 11 21 12 14 14 2 5 4 3 7 7 7 11 7 7 6 52 14 11 15 12	1 Dropsy of S				of Spine	
ned). 11 7 6 5 4 12 9 17 11 10 19 50 45 52 27 26 7 26 7 21 1 5 8 1 1 1 5 2 6 4 8 18 8 11 21 12 14 4 2 8 4 8 7 7 7 11 7 7 6 52 14 11 15 12					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
7 5 8 1 1 5 2 6 4 8 18 8 11 21 19 10 10 20 25 22 27 26 27 21 21 21 21 21 21 21 21 21 21 21 21 21	1 Dropsy, Uterine.	Dropsy, Ute	Dropsy, Ute	Dropsy, Ute	rine	
5 3 1 1 5 2 6 4 3 13 8 11 21 12 14 2 3 4 3 7 7 11 7 7 6 22 14 11 15 12	224 226 215 Dropsy (Unspecified)	226 215		Dropsy (Un	specified)	6 5 4 12 9 17 11 10 19 50 15 32 27 26
3 4 3 7 7 11 7 7 6 22 14 11 15 12	98 JOI 105 W	105				5 3 1 1 5 2 6 4 3 13 8 11 21 12 14
	126 125 110 **	125 110			***************************************	8 4 8 7 7 11 7 7 6 22 14 11 15 12

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Females	-		1	1		1	1		90	I*	9	01	10		1		:	-	:	:				-
Males		1		-		- 1	1		-	1	1	1	- 6	Enrache	1		1	1	i	1	1		1	:
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Females	1	1	1	1		1	1		1	1		-	- !	*	:		1	1	1	:	1	1	i	:
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Females	:	1		1	•	1	1		1	i		-	_	Embolism of Brain	1	- 1	1	÷	:	1	1		i	3
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Males	-	1	1	1	1):	:	1.5		н	1		ł		Endocarditis	:	1	1	1	1	-	1	1	1	1
1406	0		-			-					3				-		1			-				-

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TABLE

1	'8281 '6281	CAUSES OF DEATH.	
		*9261	7 10 to 16.  10 to 16.  10 to 16.  10 to 16.  20 to 25.  20 to 25.  20 to 26.  35 to 40.  35 to 40.  45 to 50.  45 to 60.  45 to 60.  46 to 65.  47 to 60.  48 to 70.  70 to 70.  70 to 70.  70 to 70.  80 to 80.  80 to 80.
	18 21 16	17 Epilopsy	60 60 60 60 60 60 60 60 60 60 60 60 60 6
7	23 21 15		4 1 3 4 8 1 2 1 1 1 1 1
	- 1	Eruption on Back	
	_	Erysipclas, Bone	
	. 1	Erysipcias of Bowels	
2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1	, , ,	
2 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Erysipelas in Mead	
1	-	Erysipelas, Phlegmonous	
2 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	. 1	Erysipelas of Stomach	
1 3 4 5 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1	Erysipelas of Throat	
4 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	84 91 75	107 Erysipelas	28 1 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20
51	47 44 37	#	11. 2. 2 2 6 1 2 6 1 2 3 4 2 1
	37 47 38	43	17 1 1 3 8 1 1 9 1 9 1 1 8
		5 Explosion of Boller	
	- 1	1 Explosion of Keroseno	
6		" " "	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	1 Explosion	
	1 01	Exposure	
Females 1 1	1		
Males 4 5 1 2 1 1 1 4 2 1 22 25 22	22 25 23	91 Palling Tree	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

44 39 52 45 FCVCr, 18 18 27 23 26 21 25 22 4 4 1 1 FCVCr,	Fever, Billious	16 6 5	*	64		0 1	4
18 27 23 4 1 1 1 1 1			-	_	•	•	
21 25 29	-	10 2 1		1	01	:	D0
4 1 1 Fever,		9 6	00	01	1 6	1 1 2	-
	Fever, Catarrhal	1 1 1	- 1	1	1	-	1
1 10 09	=	1	1	:	1	-	Q4
1 1 1			1	1	1 7	1	1
		:	1	:	1	1	1
2 7 1 Fover,	Fover, Congestive	-	. 1	1	:	1	1
	:		1	;	1	:	:
			-1	1	1	1	1
1	*	1		1		1	:
1 Fover,	Forer, Continued	1	- 1	-	1	1	1
-		1	-1	1		1	1
	*		4	-	1	1	1
8 2 5 4 Fever, Gastric	astric	1 1	- 1	-	-	-	-
01		1	-1	1	1	-	1
60 64	*	1 1	1	-	1	7	
- 1 Fever,	Fever, Hepatic	1	1	1	1	-	1
47 53 36 46 Fever,	16 Fover, Intermittent	18 1 5	-	1	-	-	64
24 30 16 17	***************************************	0 1	-	1	1	- 1:	1
23 23 20 29		6	-	1 1	1	-	1
5 7 4 4 Fever, Malaria	falaria!	0 1 5	00	3 1	:	60 04	1
1 4 1		1	1 2	1	1	1 20	1
7 00 7		01	1		1		
1 Fover, Milk	Milk			1	1	1	1
1 1 1 2 2 2 3 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	inuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinuedinued			2			

a Includes 1 Erysipelas of Brain, 1 Erysipelas at confinement, 4 Black Erysipelas, and 1 Putrid Erysipelas. b Includes 4 from "Worm Fite."

TABLE XVII.—Continued.—Specified Causes of Death.

				ğ	MONT	HS,	1850	3.						YEARS	88.						4	8	AGES IN		PERIODS OF YEARS,—1890	101	38 C	E ₁	YE	A B B	Ţ	288	٠.		
SEX.	.Vrannat	February.	March.	May.	June.	July.	August.	September.	November.	December.	Unknown.	1820	.6781	,8781	.5781	1876.	1875.	CAUSES OF DEATH		Under 5.	101 03 101	10 to 15.	20 to 25.	1 X2 10 30'	80 to 85.	.01 os 68	.64 01 01	1 12 10 20	50 to 55.	.00 to 05.	.07 01 84	.67 ot 07	1 75 to 80.	.19 vo bas 08	Unknown.
Males		<del>-</del>	$\div$	<del>:</del>	:	:	<u> </u>		<u> </u>	- 1			-	-	i	i	i	Fever, Mountain			$\div$	÷	<del>-</del> -	<del></del> :		_ :	<u> </u>			<del>:</del>	_ <u>:</u>		_:	:	:
Total	-	<del>-</del>	<del>:</del>	<del>-</del>		_	6		_	:_		90	10	i	m	6	40	Fever, Nerrous	-	_	_	_	-:	_		:	:		<del>-</del>	:	÷	<u>:</u>	:	三	;
Males	:	$\div$	- <del>:</del>	<del>-</del>	<u>:</u>	_	~		<u>:</u>	:	:	40	64	i	ī	9	64	,			-:	_	븢	÷	:	:	:	_	÷	<del>- ;</del>	<del>:</del>	<u>:</u>		<u>:</u>	;
Females	_	<del>-</del> -	$\frac{\cdot}{\cdot}$	<u>:</u> -	:	:	$\div$	$\div$	<del>-</del>	<u>:</u>	:	60	60	i	89	63	8			:	÷	<del>-</del>	ᆣ	<del>-</del> -	:	-:	<u> </u>	÷		<u>:</u>	<u>-</u>	<u>:</u>	<u>:</u>	Ξ	;
Total		-;			:	64	61	61			:	23	7	G	-	55	7	Fevor, Remittent	-	10	_		<u>:</u>	20		:	Ė	÷	$\div$	$\div$	<u>:</u> -	:	:	_	;
Males		$\div$	<del>-</del>	<u> </u>	:	_	_		~		:	9	က	7	7	7	-	, ,		01	<del>-</del> ÷	<del>:</del>	<del>-</del>		_	:	•	<del>- ;</del> -	÷	<del>:</del>	<u>-:</u>	<u>:</u>	:	_	:
Females		:	<del>_</del> :		_:			_	_	:	_:	2		40	GI	9	-		-	80	_	_	<del>_</del> :	<del>-</del>		:	÷		$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$	<u>:</u>	:	$\equiv$	_:	:
Total	_	$\div$	<del>-</del>	<u> </u>	_	_	-;	_	<del>-</del>	C1	:	6	7	9	4	7	9	Fover, Rheumatic		;	61	- <del></del>	<del>-</del>	<del>-</del> ÷	:	:	:	:	_	:	<del>-:</del>	_:		:	:
Mules	_	$\div$		- <del>:</del>	=		-:	<del>_</del>	<del>-:</del>			93	63	64	64	63	89			:		- 61	<del>:</del>	<u>:</u>				$\frac{\cdot}{\cdot}$	<del></del>		<u>:</u>	;_		<u>:</u> .	:
Females	-:	<del>-:</del> -	<del>-</del>	<u> </u>	Ξ	_	÷	$\frac{-}{\cdot}$		01	:	9	_	-	C+	7	63		<u> </u>	į	61		<u> </u>	<u>:</u>		:	:	:	<del>-</del>	<del>:</del>	<u>:</u>	<u>:</u>		-	:
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remales	- 1	-	1		- 1	-	.04	- 1	-	1	10	99	60	16	*	20		01	;	:	-	H	4	- 1	- 1	-	1	÷	+	:	_:
Males	= 2	1				1	- 1	<u>:</u>	- 1	i	T	1	- 1	1	7	1	Fever, Urinary	1		1		1	1		-,6	1	1	÷	+	1	:
Males		1	1.		-7	1	1	1	-1	i	1	1	91	1	н	-	l Fever, Yellow	1	:	1	- 0	1	1	- 1	4	:	1	÷	:	1	-
Potal	00	30	90	30	G4	=	2	=	13 9	-	105	3	19	26	96	75	75 Fever (Unspecified)	550	=	*	09	49	94	49	9	9	64	4.5	04	_	
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emales	1	-	- 2-	-	_	1	3	1	-	1	01	61	12	99	63	-		1		1		1	4		Ť	;	1	1	1	-	
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. Includes 18hip Forer.

TABLE XVII.—Continued.—Specified Causes of Death.

					M	ON	LH	MONTHS, 1880.	188	ď						×	Y EARS.					_		4	S S	AGES IN			PERIODS OF YEARS	00	80	Ä	<b>=</b>	4	ė	1	∌	
SEX.	January.	February.	March.	April.	May.	June,	August	September.	September. October.		Лочетрет.	December,	Unknown, I	.0881	1879.	1878.	*££81	1876.	1875.	1 teams	CAUSES OF DEATH.	Under 5.	.01 01 6	.61 o1 01	10 10 20.	462 01 02 P	.08 of 62	,68 of 08 j.	'a) 01 98	40 to 49.	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	45 to 55.	'09 o1 gg	60 to 65,	.05 01 68	70 10 75.	*08 01 67	.19 VO DOR 08
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Males	1	1	-	-	-			+	-	-			-:	÷	- 1	-				14	Fracture of Neck	- !		- :	;	:	- 1	-:	-:	_	- :	-	-:	- 1	- :	- 1	_ :	_;
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Males	- 1	- ;	1	:	-	+	<b>-</b>	1	-	- :	-:	_	- :	-	7	00		-	00	Die	Fracture of Skull	- 1	- :	- ;	1		- 1	-1		=	-	-	-:	- 1	- :	- :	- 1	- 1
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Total	- 1	:	-:	:	-	1	-	-:	-	-	-	-:		60	1	1	1	1		9	Gall bladder, Rupture of	•	1		. 1	- 1	:	- :	-:	- ;		:	1	:	-	:	;	- 1
Males	:	-:	- ;	÷	1	1	-	+	-	-	-	-:		61	1	1	1	1				Ė	1		;	1	1	:	-	:		-	1	1	-	:	-:	1
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Fomales			_	_	-		-	-	-	_		_	- 1		01				_	_	Gall duct, Obstruction of		_		_		_	_	_	_	-	-	_					

Malos               -	<del>7</del>	Gall, Disease of	
Total 1	1	Gall-stone	
Malos	1	***************************************	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Fomales J	;		
Males	н	Gangrene, Scuile	
Fomales	-		
Total 1 6 3 1 1 1 13 10 10 12	9	4 Gangrene	63 61 61
Males	9		50 61
Fomales	3		01
Males	1	Gastralgia	
Malos 1	1	"Glanders, Yellow" (Jaundice)	
Males 1	1	Glanders	
Fomales	1		
Males	1	"Glands"	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Femalos	- }	Glandular Discase	
Malos 1 1	1	Goltre.	
Fomales	1	н	
Males	1	Gonorrhea	
Males 1	-	. Gout	: : : : : : : : : : : : : : : : : : : :
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Males 2 1 2 2 2 . 4 3 1 . 2 20 20 21 16	31		2 1 1 4 7 2 2
Females	61		: : : : : : : : : : : : : : : : : : : :
Males 1	1	Groin, Rupture of	
Maice 7 2 2 2 2 1 1 1 3 2 15 5 15 5	16	Il Gun-shot	3 3 1 1 4 2
Females	99		
Males	1	Hæmatemesis	

. Includes 4 in Foot and 1 in Leg.

TABLE XVII.—Continued.—Specified Gausses of Death.

				Ä	MONT	H	не, 1880	88	_					• •	YEARS	<b>e</b> i					•	5	AGES IN	Ħ	P	ERI	ē	PERIODS OF YEARS.—1880	<u></u>	Œ	38	ī	8		
SEX.	January.	February.	April,	May.	Jane.	July.	August,	September.	October.	November.	December.	Unknown.	1880	.6781	1878.	.7781	1876.	.8781	CAUSES OF DEATH,	Under 5.	5 to 10.	15 to 20.	20 to 25.	.05 to 30.	.65 01 08	.04 of 68	40 to 45.	45 to 50.	.66 to 55.	.08 01 68	.60 to 65.	.07 of 65	70 to 75.	75 to 80.	Unknown.
Males	- ;	1	1	1	- ;	;	-1	:	-	-:	-	1	-	1	1	7	1		Нау Регег	1	-	-:	-		+		_:			- 1		- 1	-	T	-
Total	- 1	- 1	1	-	:	1	:	- 1	-	-	- 1	1	93	1	1	1	01		Headache	C4	1	- 1	+	1	- 1	-;	:	-	-:	:	- 1	-			+
Males	:	1	-	:	- :	1	-:	- ;	1	-	-	:	-	-1	1	1	01			-	-	-	÷	-	+	- 1	-	-:	-:		.:	-	1	÷	-
Females	i				:	- 1	- 1	- 1	-		- 1	. :	26	1	i	1	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	÷	÷	+	1	+	1	-:	_:	-:	- 1	:	-	1	t	-
Males	1	1	-1	1	- (	- ;	- 1	- 1	-	-	ì	:	1	01	80	<b>C4</b>	1		Head Disease	1	+	1	÷	-	+	-	-:	÷	:	- ;	- )	- 1	i	- ;	- 1
Females	1	- :	- 1	1	1	;	- :	- 1	-:	-	4	;	i	-	1	01	1			1	+	1	+	1	1	1			- :	1	:	- 1		-	+
Males	:	- 1	- 1	- 1	. (	- 1	:	-	1	1	- ;	i	1	1	-	7	1		Head, Inflam. of	1	+	1	+	-	1	-	- ;	- :	- ;	;	-1	:	1	1	+
Females	1	:	-1	- 1	1	1	-	:	- 1	4	1	;	-	1	93	- 1	1		77 77 74	1	- 1	-	+	+	+	- :		-	:	- !	- ;	- 1	Ť	÷	+
Males	1	- 1	1	- 1	- 1	- 1	:	- 1	1	:	i	·;	1	-	Ť	1	1		Head; Neuralgia in	1	1	1	1	-	1	-	-:		- 1	- 1	- 1	- 1	1	1	-1
Females	i	- 1		- :	:	- ;		-1		:	1		1	1	i	1	-		, ,	1	÷	<del>-</del>	÷	i	1	- 1	1	-	- 1	- 1	-1	- (	1	•	-:
Females	1	- 1	1	1	:	- 1		-1	:		- 1	;	-	T	-	1	1		Head, Rupture in	1	÷	÷	÷	+	1	- 1	- 1	-	- ;	;	- ;	- ;	1	:	-
Males	i	1	1	1	-	:	-1	-1	1	-	:	- 1	-	1	i	1	1		Heart, Abscess of	1		i	÷	÷	7	-	÷	- 1	_;	- 1	1	-1	1	i	+
Females	i	- 1	:	1	- 1	1	:	1	-1	1	1	:	1	1	-	1	1		Heart Clot	-	÷	-	+	1	1	- 1	- !	- 1	-:	- 1	-	- 1	-	i	- 1
Females	1	4	- 1		:		1	- 1	-	-:	1	÷	-1	İ	1	1	1		Heart, Cramps of	1	1	1	÷	+	+	_	-	:	-	1	- 1		-	:	÷
Females	1	- 1	- 1		1	1	-	- 1	:	-	-	14	-	1	1	1	1		Heart Disease, Organic	1	1	-	+	1	1	1	- 1	-	:	- 1	- }	:	1		1
Total		18 25 31 46	9	33	36	60	8	75	9	69	49	-	3	11	333	367	330	280	Heart, Disease of	33	G1	9	22	101	8	17	16 31	55	330	8	55	28	13	37	7
Males		9 15 18 18 17 17	100	7	17	16	30	11	99	27	22	-	938	55	187	191	185	151		61	9	-	9	10	9	90	6 11	1 17	1 19	17	61	20	96	19	9
Females		9 10 18	85	8	12	16	62	1	5	81	9	-:	208	192	145	172	135	22	11 11	21	02	10	-	-	21	6	10 20	0 16	11	18	16	61	6	92	7
Unknown	i	1	1	1	- 1	:	1	- 1	-1	1	:	÷	- 1	1	1	-	-			1	- 5	- 1	÷	i	1	1		- 1	- 1	- ;	- †	1	1	1	i
Total	-	-	91	1	- 1	:	-	01		- 1	-	:	6	0	•	7	04	*	Heart, Enlargement of	1	÷	1	-	1	1	÷	+	:	-	-	00	90	-	-	1
Males 1 1	-	-	_				-					-	7	04	•	-	-	0	**				-	-	-	-	-		_	_	•	•	_	-	-

Females	100													:
Malos	-		:	1	,	1		~	1	Heart, Fatty Degen, of	1	1	:	:
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Fomales	1		1	1	-	1	-	i	4	Heart, Hemorrhage of 1	:	:	- 1	1
Malos	1 1		1		-	1		1	2.	Heart, Hypertrophy of	-	1	1	:
Lomalcs	7		1	1		-		· ·	1		:	:	1	1
Males 2	24		1	1	Q1	+	1	13	O.	Heart, Inflam. of	1	1	1	-
S Females	1		1	1		-	01	- b	1		1	1	1	1
O Males	1	1.	1	1	-	-	-	- 6	-	Heart, Malfor. of	1	:	1	
Total	1	1		60	9	12	20	6	2	Heart, Neuralgia of	1	. 1	-	1
Males	1	1	1	-	C+	*	60	49	50		-	1	-	
Females	1	:		0+	-	90	9	*	04		1	-	:	-
Males	1	1		1	ij.	1	-	-	-	Heart, Ossification of	1	1	:	- 5
Males	. 11	:	1	1	90	1	-	-	-	Heart, Palpitation of	1	1	C4	;
Females	1	1	1	1	- 1	-	-	-	01		1	:	:	1
Total	1	-	61	60	24	11	15	Q+	04	2 Heart, Paralysis of 2 1 1	;	9	-	
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Total		-			on		0		*	Hemorrhage Gerebral		-	_	-

TABLE XVII.—Continued.—Specified Causes of Death.

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SEX.	. Lanuast.	February.	March.	April.	May.	June.	July	August.	September. October.	November.	December.	Unknown.	1880,	.6781	.8781	.Trst	.9781	.9781	I man	CAUSES OF DEATH,	Under 5.	'nt 01 g	.010 lb.	'05 01 vI	,00 to 25,	506 01 02	98 01 08	'04 01 cg	CF 01 0F	100 01 ch		09 21 66	.69 03 09	207 01 60	7010 79	75 10 80.	Su and over.	Unknown.
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Malos	1	-		-	Hernin, Umbilical	:		1	F
Females	1	1	1	~		1	:	1	- 1
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Maloa 1	10	7		50	*	1	1	1	1

. Includes I from Bursting of Blood-vossel, b Includes 3 Strangulated Hernia,

TABLE XVII.—Continued.—Specified Causes of Death.

				N	MONTI	TI	18,1	1880							YEARS.	'n					4	G	AGES IN PERIODS OF	N	PE	310	SQ	AO	Y	AR	i	YEARS1880.			
SEX.	January.	February.	March.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	1880.	1879.	.8781	.778I	1876.	1875.	CAUSES OF DEATH.	Under 5.	2 (0 10)	10 to 19:	15 to 20	20 10 20	30 to 35.	35 to 40.	40 to 45.	'00 01 CP	.60 to 55.	.00 to 60.	65 to 70.	701075	.08 of 67	30 and over.	I Unknown. I
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Males	:	-	:	- 1	- ;	- 1	- 1	- 1	- 1		:	i	i	:	1	1	1	-	Hydrophobia	1		:	:	÷	+	:	:	- 1	1	:	÷	1	-1	-9	:
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Malos			- 1	1	:	-1	- 1	1	-	1	- 1	- 1	7	1		Injury	y	*****	1	:	- 1	-1	- 1		1	1	1	+	- )	1	-	
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otal	01	•	-	-	*	**	-	H	:	15	38	23	10	10		Kldne	12 Kldneys, Inflam. of	*****	-	-	•	1	-	H	н	i	- :	-		4	01	69
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• Includes I from amputation of log.
• Includes I Black Jaundice and 8 Yellow Jaundice,

TABLE XVII.—Continued.—Specified Causes of Death.

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SEX.	Venuary.	February.	April.	May.	July.	August.	September.	October.	December.	Unknown.	1880,	.6781	1878.	.7781	1876.	1875.	CAUSES OF DEATH.	Under 5.	5 to 10.	10 00 15.	15 to 20.	.6° to 95.	25 to 30.	35 to 40.	40 to 45.	45 to 50.	.66 to 65.	.00 to 60. 60 to 65.	.07 01 68	.GT o1 07	.08 of AT	So and over.	Unknown.
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Females	1 1 1	,	1	00	01	10	0	60	:		;		-	-	1	i	- 1
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Total 2	1 1	1 1 2			01	9	-	1-	Liver, Indam. of	-	1		-		-	H	-
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Females	1	-	.2.	j.	1	- *	1	1	Liver, Scirrhosis of	-	1	_	- 1	140	1	i	- 1
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Total	1			41	61	04	4	-	Liver, Ulcer. of	_	-			- 4	. 1	;	- :
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a Includes I Chronic Inflammation of Liver,

TABLE XVII.—Continued.—Specified Causes of Death.

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			Z	Mont	THS,		1880.						YKARS	R8.	į				AG	AGES	IX		PERIODS	Q	S OF		Y ears 1880	8	7	88	ا ج		
SEX.	January. February.	March.	April.	May.	July.	August,	September.	October.	November.	December.	1880.	.6781	18781	.7781	1876.	18781	CAUSES OF DEATH.	Under 5. 5 to 10.	10 to 15,	15 to 20.	20 to 25.	25 to 80.	80 to 85.	35 to 40.	40 to 45.	50 to 55.	,(N) of &&	.GB ot Uñ	.07 of 58	.01 01 07	.08 of dT	.1970 bna 08	Unknown.
Total	l : l :	~		<del>                                     </del>	<del>  -</del>			<del>-</del>	<del>                                     </del>	<u>  :</u>   :			۰	65		<u> </u>	2 Lunge, Abscess of	<del>  :</del> 	<del>  - :</del>		1	-	一	$\vdash$	1 :	<del>                                     </del>	-	<u> </u>	i :	<u> </u>	1	· :	١:
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Fomales	<u>:</u> :		_;	<del>- :</del>	<del>-</del>	- :	:	$\vec{}$	$\div$	<del></del> ;		_	<u>ო</u>	C1			, , , , , , , , , , , , , , , , , , , ,	<u>:</u>	<del>-</del>		:	_:	÷	$\div$	<del>-:</del>	<u>:</u>		:	-:	:	-:	-:	:
Males	:		:	<del>-                                    </del>	<b></b> :-	-:	:		$\div$	$\frac{\cdot}{\cdot}$		64	]		i		Lungs, Apoplexy of	<u>:</u>	<del></del>	-:	:	:	<del>-:</del>	$\frac{\cdot}{:}$	$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$	<u>:</u>	_:	:	:	:	-;	:
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Females		6 13 10	Ξ	-	*	1-	•	<u> </u>	ᇹ			8	8	52	8	21		51	8		8	တ		20		-20	20	60	7	9	8	_	:
Females	-	<del>-</del> :	:	$\frac{1}{1}$	<del></del> :	:	:		$\stackrel{\cdot}{ ilde{}}$	<del>-:</del>							Lungs, Neuralgia of	<u>:</u>	<del>-:</del>	-:	:	:		÷	$\frac{\cdot}{\cdot}$	<del>-                                    </del>	-:	_;	:	:		-:	:
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Males	-	_ <u>:</u>	:	$\frac{\cdot}{\cdot}$	<u>:</u>	<u> </u>	_	:	<del></del>	<u> </u>	61		- :			<u>. i</u>	7	<u>:</u>	<del>- :</del>		:	1		$\div$	<del>-</del> ;	<u>:</u>	:	Ξ	:		_	-	:
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Malos	:	-;	:	<del>:</del>	<del>:</del>	<u>:</u>	:	÷	$\div$	<del>:</del>			20	-			Lungs, Ulcer. of	<u>:</u> :	<del>-:</del>	<u>:</u>	<u> </u>	:		÷		<del>-</del> ;	:	:	;	:	:	_;	:
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Females		<b>_:</b>	<u>-</u>		_:		=	<del>-</del> :	<del>-6</del> ;	_:	_	_	_	_:	_	_}	Mania, Puerperal	-	_:	_;		~	~	-:	-:	– <u>:</u>	_:	_:	_:	_;	$\equiv$	_;	:

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S Females	-	1	1	-	-	01	1	1	1	7 5	*	80	04		*	-		-	1	-	î
Femalos	1	1	1	-	-1	-3	:	1	1	1	_	1	i	Mastold Bone, Dis. of	-		-	1	:		
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Males	1	-	:		:	1	1	3	01	1	01	1	1	Meningitis, Cerebral	:	1		1	1	1	1
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TABLE XVII.—Continued.—Specified Causes of Death.

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SE N.	- Vranual	February.	March.	May.		.Vint	August.	October.	November.	December.	Unknown.	1840*	.6781	18781	.7781	1810,	1815.	CAUSES OF DEATH.	Under 5.	.61 01 01	105 to 201	20 to 25.	30 to 35.	.01 of 68	1 40 10 42.	1 45 to 50.	.68 or uc     55 to 60.	60 to 65.	1 65 to 70.	.67 01 07 1	75 to 80.	. 1970 bas/18	і пркромв.
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2 2 1 8 7 6 4	6 Neuralgia	
Males 1 1 4 2 2 1	2	
Females 1 1 1 2 2 7 8 8 4 8	:	
Females	Nightmare	
Females	1 Obesity	
Males 1 1 1	Obstruction of Veins of Neck	
45 58 63 51 53 75 3 625 608 579 489 483	373 Old Age	1 2 8 12 30 74 126 382 5
Malos 13 25 25 28 23 20 26 31 32 24 28 41 1 317 294 281 245 228 218		
Femalos 9 19 22 39 34 20 19 27 31 27 25 34 2 308 314 293 241 235 15		
Malcs 1 1 1	Opium	
Males 1 1 1 1	1 Opium Eating	
Females	:::::::::::::::::::::::::::::::::::::::	
Males 1 1 1 1 1 1	Ossification of Arterles	
Males 1 1	Osteo-sarcoma	
Females	Ovarian Disease	
Females	Ovarian Dropsy	
Females 1 2 1 1 1 2 1 1 3 1 14 11 6 5 3	6 Ovarlan Tumor	9 1 2 1 3 1 2 1 1
Females 1 1	Ovaritis, Chronic	
Total 1 1 1 3 2 8 2 1 14 5 8 7 4	8 Over-dose of Medicine 2 2	1 8 2 1 1 1
Males 1 3 1 2 1 8 3 7 4 4	: :	1 8 1

Includes I Caused by Broken Rib.
 Includes I Chioroform to Extract Tooth, 1 Opium, 1 Cupe Aloes, 1 Rhubarb, and 1 Laudanum.

TABLE XVII.—Continued.—Specified Causes of Death.

			9	MONTH	9	rs, 1890.	٠.						K	YEARS.					Þ	ĕ	AGES IN		RIO	ğ	, N	×	Periods of Years.—1830.	Ţ	ž		
N STANDALL	Pedrusty.	March.	-threat	May.	. Laly.	'yenguy	September.	October,   November,	December.	Дикломи.	1880	.6781	1878.	.7781	1820	1875,	CAUSES OF DEATH.	Under 5.	5 to 10.	10 00 50.	20 to 25.	1 25 to 30.	80 to 35.	40 to 45.	45 to 50.	'gg o1 og	.08 05 68	.07 of 68 l	70 to 75.	.08 of at	Unknown.
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Males			1		- 1	- 1	_	-		-:	_ [	- 1	1		-	1	Over-lifting, Strained by	1	- 1	- 1		-1	- 1	- 1	- !	- 1	-	- 1	- 1	-	- 1
Males	1	1		1	- }	1	;	-	-		_1		01				Over-work	1	- 1	- 1	- ;	- 1	- ;		- :	- 1		:	-1	i	- :
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Males	- 1	;	1	1	1	- 1	- 1	-	1			1	1	1	1	i	Paralysis, Croeping.	1	+	- 1	:	i	+		- ;	:	-	. :	- ;	:	- 1
Malos	-	-	1	:	-	- 1	-	91	91	-	30		17	1	60		Paralysis, General.	1	1	- 1	- ;	1	1	00	-	-	1	:	-)	-	- (
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Males	1	i	1	-	- 1	- 1	i	+	- 1	-:	1	1	1		1	1	Paral, of Insane, General	1	- :	- 1	:	:	+		i	- ;	-	-1	-1	-	- 1
Males	-	1	i	+	3	1	i	1	1		1	- 1	_ !		64	Į,	Paralysis of Stomach	1	:	1	-	i	÷	- 1	1	1	- !	- 1	:	1	1
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Males		119		-				-	_				_						_					_			_			-	

Fomales [	1	1	7	+	1	:	Ť	1	-	2	1	ī	-	:	1	;	1	Peritonitis, Pelvic	1	1	Ì	÷	*	÷	1	Ť	+	1	1	1	Ť	÷	:
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Males	62	-	13	9	-	04	9	60	9	9	1	19	45	68	80	124	22	=	-	50	4	*	9	*	04	89	-	9	90	10	01	01	60
Females	-	20	*	*	1	60	63	6 3	7	10	-	37	30	53	20	5	8		10	60	-	4	60	_1	64	63	10	1	-	60	64	-	01
Total 56 82 111 113 79	26 8	11 2	=	12	37	83	36	7	89	105	-	815	701	462	465	627	745	Pneumonia	328	30	80	35 13	23	36	36	35	29	25	9	12	69	25 20	3
Males 33 49	33	9 64		70 42	30	16	55	33 35	9	55	. 1	479	405	275	263	364	120		187	65	01	30	0 10	=	05	4	22 21	27	52	10	25	91	•
Females. 23 33	23	3 47	_	13 37	17	92	7	81	83	20	н	233	686	187	202	263	295		141	17	80	15	4 13	21	16	18	1 8	7	133	00	24	20	61
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Males	-	-	64	-	00	-	-	61	1	64	1	14	0	7	15	9	7	=	7	04	-	1	-	-	-	-	-	:	- 1	01	÷	+	:
Females	7	-	-	+	-	1	60	-	1	1	1	00	0	13	6	13	00	=	04	1	:	-	01	~	1	-	÷	04	;	1	÷	+	:
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a Includes 1 Ataxia Locomotor. b Includes 1 Progressive. c I

c Includes 1 from Kernsene Oli, 1 from eating wild berries, 1 from doctoring horse glanders, and 1 self administered.

TABLE XVII.—Continued.—Specified Causes of Death.

		1	l	Ä	MONT	ĮĒ	] _;	118, 1880.	١.					YEARS	, g					4	0		Z	AGES IN PERIODS OF YEARS.—1880.	Į ž	l ë	5		¥	20	i 7	1 8E	ي ا	l	ı
SEX.	January.	February.	March.	April.	June	.vint.	August.	September.	October.	November.	Спквомп.	'0881	16281	'8261	7281	1876.	1875.	Causes of Death.	Under 5.	, 10 to 10.	1010101	'07. 01 01	,08 01 69	'eg: 03 ng	35 to 16,	401045	100 01 01	50 01 05	'(E) O1 CC	(0) 10 (0)	'02 01 09	'92 01 02	.08 01 67	30 and over,	, пимопипп
Males	1	-	:	1	- 1		-1		- 1	1.1	11 7		1	1		-	1	Prostate, Enlarg't of	Ì	1	1		1	:		- ;	:				- 3	1	1-6	1	E D
Females	1	:	÷	1	1	-	- 1		1	1	1.	1	1	**	1	1	- 1	Prostate Gland, Swelling of	-	:	+	-	÷	1		- ;	- 1		-;	1	- 5	1	-	- 1	- 4
Males	1		-	1	1	:			- 1	;		-	i	1	;		:	Prostatitis, Chronic	1	;	-	-:		1		- (	- 1		1	- 1	1	1	- ;	- 1	
Males	1	1	- ;	1	+	- 1	2			*		•	-	1	1	i	1	Prostatilis	į	:	1	1	-	1	-	- 1	,		-;		1	1	- 1	- 1	- 1
Females	- (		i	+	1	;			1	- 1	÷	:	1	-	-	1	:	Prostration	1	÷	-	1	-1	1	-	i	4.		:	- 1	- 3	;	-	:	
Females	1		÷	Ť	$\pm$	-	- 1	. :	.1	1	<u>:</u>	:	1	- ;	_	1	1	Puerperal Congestion	1	1		-	i	1	-	1	:		1	- 1	-6		- 3		
Females	-	1	-	1	-	-	- 1	:	1		;	24	10	-00	•	9	63	Puerperal Convulsions	1	- †	:	- :	1		01	1	;		:	- ;	13	1	٠,	1	
Females	91	-	1-	49	*	20	21	9	Ø	- 4	<del></del>	8	55	16	នួ	65	700	37 Puerperal Fever.	1	-	- 1	**	1-	10	10	-	- ;	;	- 1	- 1	- 0	1	- 1	- ;	24
Females	,	1	-	3	1	1		- 1	1	1.7	•		i	- 1		04	Ç9	Puerperal Peritonitis	1	:	1	-		1	-		- 1	.:	- ;		1	1	-	- 1	o.
Fomales	:	1	1	1	1	-	-:	- 1	- 1	-1			-	-			1	Puerperal Septicamia	1	1	:	1	-			-:	:	1	- 1	1		-	- i	1	= 0
Males	1		<del>-</del> ;	1	1	+	1		-8	:			Ť	1			1	Purpura Hemorrhagica	1	1	1	- 1				i	- 1	1		- 1	- 0	-1	- ;	- 1	3
Feniales			1	+	1	+	,	1	- 1	1		-	i				1		1	1	1	-	-	1	-	:	- :	1	1	:		-	7	- 1	- 2
Females	1		1		-	1	-		:			-	1	1				Purpura	1	1	Ť		÷	+	-	;	1	- ;	1	1		1	- ,	- (	
Total		1		1	;	+	-	1	1		-	64	1	54			_	Pywinia	1	1	1	-:	-	-	-	i.	:	-1	- 1	- ;	1	:	- ;	;	
Males	1			1	:	- 2	=	:	:		- 1		i	1			_;	•	1	1	÷	7	-	+		1	:	- 6	4	- ;		1	٠,	- >	. :
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Total	-	7	1	1	-	-	-	-	20		- *	80	10	1-		*	10	Quinsy	01	gı	1	91	÷	-			:	- 1	:	- 1	- 0	1	- X	- 5	
Males	**	:	-	:	-	-:	-	1	- 51		- 1	40	1	04		.00	64		01	-	1	-	-	-					1	:	- 4	:	٠.	1	:
Females	:	;	1	i	+	- 1	- 2	_	-		-1	65	4	40		-			:	-	:	-	÷	-	-			:	:	;	. ;	- ;	7		
Total   1	-	:		-	-	- ;			21			65	-	C		- 1		Rachitis	e	-	- :	-	-:	-					- 3		- 3			:	

Males			1	-	+	1	-	1		7	1	•	7	1	01	Rachitis	1	-	:	:		30			:	1	÷	÷	:
Fomalos	i k			1	:	-	-			01	-	-	-	1			*	:	:	1	1	- 1	-	:	:	:	:	:	:
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Males	**	01	9	21	01	00	*	21	9	37	23	*	20	36	20	*	-	-	5	9	*	20	40	00	-	1	-	1	•
Foundos		16		1	Y	-	-		-	80	64	•	49	-	20		-	:	-	Ξ	:		,	:	1	:	÷	1	:
Males		:	- 1	1	1	1	1	1	:	- 1	- 1	+		-	(14)	Rash		:	- 1	1	;	- 18	-	<u> </u>	1	1	1	÷	:
Fomales	90	- 1		:	-	1	1	3	1	1	- 1	+	>=	;	*		:		7	1	1	1	+		1	:	:	:	:
Females	11.0	1		:	1	3	1	1	1		1	1	4	1	1	Rheumatism in Bowels	-	;	:	:	1	1	1		1	1	1	:	:
Females	•	4	*	i	1	-1		1	1	г		1		1		Abcumatism of Brain	1	:	:		:	7.1	:	:	;	-	+	:	:
Females	1	1	190	1	1	1.	- !	-	:		:	1	-	1	Att	Rheumatism in Chest	1		1		1	Ė	+	1	1	:	1	-1	:
Males	1	0	-	:	:	1	- 1	1	1		130	:	- 4	1		Rhoumatism, Chronic			-	:	:	÷	1	1	-	1	:	1	:
Males	1	-	- 1	1	1	- 1	1		:	- (	11	1	-	1	-	Rheumatism in Hond		:	:	- 1	:	÷	:		i	1	1		:
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Males	91	01	93	-	-	-	1		1	27	*	9	9	1-	.20		1	-	-	1	-	-	04	Q4 24	- 1	-	1		:
Females	1	4	-	-	-	1	-	-	-	10	9	24	9	4	00	:	1	+	-	1	-	-	1	- (	i	-	-	- 1	:
Total		01	-	91	20	91	D+	20	1	64	21	13	25	8	16	Bleumatism, Inflam	1 1	01	-	1	-	01	*	C4	-	-	90	-	:
Males	1			-	02	01	-	92	1	13	1	10	9	16	90	***	7	-	-	1	-	-	*	-	7	-	-	- 1	:
Fomales		-	-	-	-	01	-		1	10	=	10	0	91	00	,	:	-	_(	- }	-	-	1	24	1	-	61	-1	:
Females	1	1	15		:	- 1	12	- 5	1	1	-1	1	141	1	-	Rheumatism, Nervous	- 1		1	- 5	;	•	÷		ĭ	-	:	4	:
Males	:	-	*	1	+	-	1	+	1	173	1	;	7	•	10	Rheumatism, Scintic	1		1	1	1	1.5	1	99	İ	1	1	1	:
Fomales	:	1.		1	:	0	1		1	1	90.	-		04	01		1	-2	1	1			÷	**	i	+	-		:
Males	1	_;_	-		+	:	1		1	4	- 1	-	141	4	7.6	Rheumatiem, Spinal	1		1		4		1		i	+	1	- 1	:
Females	1	1	- Tot		1	1	1		1	1.	-	-	14.		T		1		1	1	:	4	+		1	+	+	:	
Males	1	1	=1		+		1	-	1	1	:		-	-	-	Rheumatism of Stomach	4		1	1	1	1	1		÷	:	1	1	:
Females	1				÷	-	1		1	:	4	$\frac{\cdot}{1}$		-	_		1	:	a.	i	:	4	1		i	:	-	:	:
Total		-	10	64	20	60	90		1	80	9	8	11	65	<b>8</b>	31 Rheumatism	95	1	1		:	21	01	61	0	10	10	-	
			1		1	1	1				-		ļ		1	**************************************							1	1		1	I	ı	ı

TABLE XVII.—Continued.—Specified Causes of Death.

				-	MONT	T	TH8,	1880	30.						×	YEARS	e i					•	AGES IN	60 M	Ħ		PERIODS	Ö		0	YEARS.—1880.	Ã	9	26	oʻ	
SEX.	January	Keptusty.	March.	April,	May.	June.	July.	Angust,	September.	November.	December.	Пресепрет.	1880,	,6781	,8781	71181	,9181	-	1810.	CAUSES OF DEATH.	Under 5.	01 01 0	10 to 10.	12 to 50.	.62 01 02	1 25 to 30.	.68 or 08	1 85 to 40.	'QF 03 01	'00 03 GF 1	1 50 to 55.	65 to 65.	60 to 65.	70 to 15.	.08 of df	So and over.
Males			7.4	-	4	01	-	1	00	-	01	-	1	19 92		16 2	88	18	55	Rheumatism	61	- ;	-	- 1	-1	:	1	:	01	64	CH	24	63	01	-	-
Females	-	-	-	1	H	1	01	-	-	0+	1		-	6		13	=	=	30		1	-1	-	- ;	1	1	- 1	:	;	:	Q4	1	94	-	91	04
Females	1	:	:	1	i	-	-	1	+	+	+	1	1	1	-	1	-		64	Roscola	1	- 5	- 2	- 1	- 1	1	- (	- 1	- 1	1	1	÷	÷	1	- 1	- 1
Females	1	- 1	:	-	1	1	1	1	+	-	-	:		-	1	1	1	1	1	Rupture of Blood Vessel	1	- ;	- ;	- (	- :	1	;	ï	-	-	÷	÷	÷	-:	-:	-:
Femalos	- 1	- 1		1	:	_	+	- 1	+	-	+	+	- !	+	1 6	1	,	-	1	Rupture, Internal	!	- }	- 1	:	- ;	1	-1	:	1	-	1	+	1	- 1	1	-:
Females	:	- 1		1	;	- 1	-	-	+	÷	+	-	1	-	-	1	-	=	Ť	"Salt Rheum"	1	:		- 1	- 1	-1	- 1	-:	:	1	÷	÷	÷	+	- 1	1
Malos	1	- ;	-1			;	-	1	-	+	+	+	-	1	1	1	1	1	-	Sarcoma, Medullary	-	-:	:	-:		- 1	:	1			i	$\vec{}$	*	-1	-	-:
Males	. ;	1	- 1	- 1	- 1	Ť	1	- ;	-	÷	-:			-	-	-	-	-	1	Scald Head	1		- 1	1	;	1	- 1	. :	1	1	1	÷	-	:		- ;
Total	7	-	- 1	10	63	-	20	*	01	63	00	-		35 21		101	61	3	34	Scalding	29	80	:	:	- 1	-:	- 1	- 1	-	:	-	:	-	+	-:	-:
Males	80	:	1	4	91	-	01	•	04	64	-	01	- 1	23	10	18	54	10	16	*	18	30	:	- :	-	- ;	:	:	-	- 1	-	- 1	-	+	-	
Females	-	-	1	-	-	1	-	+	1	-	61	10	-	13	10	6	90	10	12		. 13	:	1	- 1	- :	1	- 1	1	. 1	- (	1	÷	÷	-:	_	- 1
Males	1	1	- 1	:	1	1	1	÷	+	-	1	*		1	1	1	1	1	7	Scalp, Discase of	1	- 1	- 1	- )	1	1	1	7	1		Ť	÷	1	+	-	1
Total 25 22 30 42 35	83	\$1	8	2	53	25	00	34	69	7	16	43	60	370 418	-	29 40	101	399	423	Scarlet Fever	. 235	97	20	40	64	-	-	1	:	-	1			:		-
Males 14 11 18 26 19 13	4	=	8	56	6		=	12	=	17.	18	18	13	197 225		217 20	203 16	193	216		126	55	Ξ	60	:	- 1	:	1	1		Ť		1	1	-	+
Females 11 11 12 15 16 10	11	=	21	15	16	10	6	13	-01	11	28	25	1 1	172 193	_	212 20	200	506	207	:	109	5	2	64	64	-	-	1	-	:	1	÷	:	1	-	-
Unknown.	- 1	1	- :	-	- 1		÷	÷	1	+	+	÷	1	-	- 1		-:	1	1		1	- :	- 1	- 1	- 1	- 1	-1	- 1	1	1		÷	-	1	-	
Total	25	1	-	00	1	*	10	2	-	-	4	-	-	31	35	33	010	56	75	Scrofula	15	63	60	- 1	-	- 1		04	-	-	-	;	-		-	-
Malos		1	-	6,	1	-	60	*	-	,	93	-	-	20 1	7	15	15	15	7		11	100	60	- 1	-	. ;		1	1	1	i	-	=	1	-	- 1
Females	G#	1	- ;	-	- 1	:	Q4	-	1	-	-	00	-	11 2	17	20	17	=	10		*	- 1	- :	- 1	- 1	:	64	- 64	-	-	Ť	÷	+	÷	-	-
Males	- 1		1	- 1				1	-	-	:	1	:	1		-	-	-	1	Scurvy	i	- 1	- 1	:	:		- ;	- ;	- ;	-:	:	÷	÷	-	_	:
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Malos	*		•	_		_	:		_	:	-	:	;		-	Solf Abuse"			:	1	-		İ	-	-	i	1	:	1	*
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Males	-	1			1		1		_	-	1	1	1	T	00	Shingles	1	1	-	;	7	4	i	1	-	-1	-	1	1	- 1
188	•	- 1	- * -		1		1	4	7	1	1	-	1	1	3	Shock	_	Ť	- 1	1	4	1	:	+	1	-	1	,	- 1	-0
Females	,		,		1		4	1	-	1	1	1	-	4	-		1	1	1	1	•	1	i	:	:	i	1	1	7	- 1
Females					+		3	+		1	-	+	:	-	20	Sickness of Mother	1	-	1	- 1	1	1	:	:	;	-)	:	1	1	:
Total		1			- 1			:		01	1	+	1	1	6	Skin Disease	:	-	-	1		-1	i	:	1	- 1	1	1	÷	1
Malos		- 1	,		-			-	-	-	-	+	1	:	1		:	1	1	1	-1	1	;	1	1	1	1	1	÷	
Females		1			7		. 7	4	_	-	:	-	+	1	:		1	-	1	1	1	- 1	1	- 1	-!	:	1	. 1	+	- 1
Males	1	1	1	1	1	;	1	1	1	1	99	*	19	2	20 81	20 Small-pox	1	1	-:	Ì	- 1	. :	1	1	3	:	-1	1	-	- :
Females	-	1	-=	1	;	1	i	-		00	60	64	51 3	250	9		1	-	64	:	1	1	i	-	1	- 2	- 1	- ;	- 1	- 1
	:	- 4	- 1	- 1	1	1	1	- 1	-1	1	1	:	:	- =	S	Snake Bite	+	1	1	i	- 1	:	1	+	- 1	i	1	:	i	-
Males	-1	1	1	1	- 1	1	1	1	1	- 1	1	1	-	1	50	Spasm of Glottle	1	:	1	Ť	- 1	1	i	- 1	- 1	1	+	- 1	+	1
Females	1	1	+	. 1	1	1	1	1	1	1	1	+	1	- 1	7		1	-	1	i	1	:	1	1	1	- 1	1	- ;	-	-:
Males	7	1	÷	1	1	- 1	;	1	1	- 1	:	- 1	1		90	Spider Bite	1	1	1	i	+	:	÷	1		i	+		÷	-
Females	-:	1	1	1	-	- 1	;	:	- 1	i	!	-	1		1.81	Spina Bifida	1	1	3	i	- 1	1	1	1	- 1	1	+	:	- 1	1
Females	1	:	1	ì	- :	1	:	1	1	1	1	:	1	1		Spinal Irritation	1	1		ì	1	1	:	1	-	4	;	- 1	÷	
Males	1	:	-	-	-	- 1	1	-		-	1	1	1	1	on:	Spine, Concussion of	1	1	1	i	1	1	;	:	-1	i	1	:	-:	;
Males	4	1	1	:	+	-1	1	-	:	T	-	1	1	1	90	Spine, Curvature of	1	1	1	1	+	1	1	-	1	- 1	1	1	+	:
	61	4	5 7	90	11 6	9	-	20	9	23	62	22	81	22	10 81	69 Spine Discase	1	24	04	00	65	1	:	-	1	;	-	-	04	+
Males		04	80	10	13	99	04	91	60	12	12	33	37	37	75		1	89		-	700	-	Q.	:	1	1	1	-	+	- 1
Females	3 1	01	24	60		.00	4	-	60	90 00	22	88	62	83	12		-	7	01	01	60	:	7	20	1	-;		-1	-	1
Unknown	-!	1	- 1		1	:	1	:	1	,	1		-	!	1		1	-	* 1	i	:	1	i	;	:	-	- 1	- 1	3	1

. Includes 1 Scarlot Rash and 2 Canker Rash.

TABLE XVII.—Continued.—Specified Causes of Death.

				Мокт	XT	18,	ns, 1850.	٠.						YEARS	18.						8	AGES IN	Ž	P.	Ĭ	80	PERIODS OF		Y EARS. —1380.	18.	81-	<b>S</b>		)
SEX.	.Transat.	February.	April.	May.	Jane.	July.	August.	October.	November.	December.	Unknown,	1830	.6781	18781	.7781	18781	.8781	CAUSES OF DEATH.	.č tobaU	, ¹¹ 01 Å	'çı 01 nı	.0½ OJ či	'yr 01 ur.	708 (\$ 07	.62: 01 08:	40 10 40.	10 01 91	,68 of 46	'iri <b>0</b> 1 çç	An 01 03	.01 01 60 .47 01 07	75 to 80.	HO BIR OVET.	Unknown
Mules		:	<del></del> -	<u>:</u>		¦− <u>÷</u>		<u>                                     </u>	:	:	<del> </del>	<del>  -</del> -	<u> </u>	<u> </u>	· ·	i	_ <u></u>	Spine, Dislocation of	<u> </u>	<u> </u>	:	:	:	<del>-</del>	<del>  :</del>	╎╌	<del>!</del>	!:	<u> </u>	<u> </u>	<u>  :</u>	<del>  :</del>	1 :	
Total	;	<u>:</u> :	<del>-</del> -	_:	:	<del>:</del>	<del>-                                    </del>		:	:	:	C.	Ç,	<u></u>	Ç1	ei.	-	Spine, Inflam. of		:	:	:	:	_;	<u>.</u>	<del>-                                    </del>	<del>-:</del>	:	:		<del>- :</del>	<u>-</u> :		:
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Total		-	1	77	01	20	1		15	21	ĉi	50	90		12 Stomach Disease	80	-	-	-	21	7	
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Total		-	:			:	71	.01	6	20		Ξ	10		S stomach, Ulceration of	1	:	1	-	77		
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Malos		÷	¥.		*	:	_	-	1	-	1	<u> </u>	î	1	stricture of Intestines	i	1	t	i i	;	:	
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TABLE XVII.—Continued.—Specified Causes of Death.

				Ä	MONT	7.118	пв, 1890.	8						YEARS	RS.					4	AGES IN	8 1	NF	PERIODS OF YEARS1880	IOD	8	4	EA	ES.	ñ	88		
SEX.	.Trangat	February.	March.	May.	June	.vint.	August.	September.	October, November	December.	Unknown.	'0881	1879.	.8781	.7781	.9781	.8781	CAUSES OF DEATH.	Under 5.	5 to 10.	10 to 15.	20 10 52	25 to 30.	.66 01 05	35 to 40.	40 to 45.	50 to 55.	.09 of 66.	.60 to 65.	70 to 70.	75 to 80.	SO and over.	Unknown.
Females	- 0		1				-	-	1	- 3	1	-		1	1	1	1	Stricture of Intestines	-	:	:	1 :	1 1	1	1	_	1 1	1	1	1		_	1 :
Males	- 1	÷	1	- 1	- (	1	1	+	- 1	:		1		1	:	1	1	Stricture of Œsophagus	1	i	- 1	1	- 1	1	- 1	1	- 1	-1	- )	+	- 1	;	_:
Males	- ;	÷	- 1	-	- 1	- 1	1	;	- 1	- }	:	-	01	1	н	1	20	Stricture of Urethra	1	1	+	-	1	- 1	÷	+	- ;	-		÷	+	- 1	:
Females	- 1	i	1	+	1	1	i	1	- 1	- 1	:	1		-	1	1	1		1	1	1	-	1	-	÷	+	1	1	- 1	+	- 1	- 1	_:
Males	- ;	i	+	-	-	-1	i	1		- 1	1	-		1	1		-	Stricture	1		-;	-	1		-	+	-:	- 1	-	-	- 1	- :	_:
Total	1	64	-	-	1	1	04	1	-	_	1	12	Ξ	15	-	35	9	Suffocation	40	9	1	04	- 1	QI	•		+	- (	- 1	+	1	1	_
Males	1	01	-	-	:	- 1	Qŧ	1	-	_	21	8	6	0	10	1	4	•	*	9	-	-	- 1	-	-	+	-:	- 1	-	÷		- :	_
Females	1	i	1	-1	4		Ť	÷	-		01	20	KO	7	04	60	-0	•		i	1	-:	- 1	-	:	+	-	- 1	:	1	+	- 1	_:
Unknown.	:	+	1	- !	- :	- 1	1	-	- 1		1	-		1	1	1	-	=	-	i	- ;	- !	- 1	- 1	-		- :	- ;	- 1	-	- 1	- 1	_ ;
Total	7	60	9	60	9	99	*	-	01	9	. 9	53	59	63	99	5	55	Sufcide.	1	1	~	10	10	4	-	10	8	-	- 00	-	-	_	01
Males	60	64	9	6	63	64	63	10	-	2	6 1	20	46	40	46	65	42	=	i	i	1	01	90	*	10	4	9	-	60	9	-	_	04
Females	-	-	1	60	62	1	Q4	01	-	-	1	15	22	23	20	=	10	=	1	- 1	1	60	01	- 1	01	-	01	1	- 1	-	- :	- ;	:
Total	- (	1		+	61	90	01	-	+	-	-	13	-	35	=	17	-	Sun-stroke	04	- 1	-	-:	C+	-00	- ;		+	-	1	1	64	1	- 64
Males	- 1	i	1	1	-		C4	+	1	_	-	11	0	23	2	15	_	,	-	-	-	1	64	99	÷	- 1	-:	-	- 1	- 1	-:	- ;	34
Females	- 1	i	Ť	-	-	-	i	+	-	-	-	64	- 1	Q4	*	61	1		-	i	1		- 1	1	-:	+	+	- 1	1	1	:	- 1	_ :
Malos		i	;	+	1	- 1	i	+	1	- 41	ī	;	_ :	1	-	-		Surgical Operation	1	i	+	- 1	- 1	-1	÷	;	-	-:	-:	÷	÷	- 1	_:
Fomalos		i	i	1	_	1	1	+	1	- 7		1		i	-	61			1	i	+	- 1	_;	1	÷	- 1	+	- 1	- 1	+	- 1	- :	:
Males	- 2	i	+	1		1	÷	+	1			1	-	1	1	-	i	Swallowed a Penny when a Boy	1	i	+	-	- :	÷	÷	+	1	- :	-1	÷	÷	:	:
Males		1	÷	1	- 1	- 1	÷	÷	1			1		1	į	1	1	Syncope	1	1	- ;	-1	- 1	1	i	- 1	-!	- 1	1	÷	+	- 1	_:
Total	-	90	-	23	22	- 1	1	01	-			13	10	04	7	9	7	Syphilis	0	i	- 1	-!	- :	•	1	-	-	- 1	-	+	- :	- 1	:
Males		Ξ	-	_				-	_	_		9	9		*	80	2	2	90					-		-				-			

Females ! 2 1 1 8	9 3	7	1	1	7	ä	1	Ti Ti	1	*	24	-	e i	01	g Syphilis	1-1		1	1	1
Unknown	1	1	1	1	1	4	1		;	1	;	-	-		=	1	1	1	1	1
Females	:	+	1	1			-1		1	1	1	,	;		Tape-worm	:	1	;	1	1
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Males	e1	-	1	-	0	00	04	1	57	95	3	39	39	20	23	- 1	:	- 1	1	:
Femalos 3	-	04	-	de	94	9	01	01	53	7	25	104	38	100	8	1	:	-1	;	:
Malos	:	1	1	-1	+	- 2	- 1	-	1	1	- 1	-	1		Temporal Bone, Inflam. of	i	1	1	1	:
Males	1	1	:	1	:	-	_		01	7	10	60	7	- 1	Tetanus (Lock-jaw)	-	:	1	:	1
Females		1	1	1	1		i	- 6	1	-	-	00	-	- 1		i	1	-1	:	:
Malos	1	1	1	- 1	:	1	:		:	-	1	11	-1	-1	Tetanus	i	:	1	1	1
Females	1		1	7 ;	1	-1	ì	6	:	1	-	-	-	1	*	1	1	- 1	:	:
Females	i	+	- 1	1	:		- ;	- 10	1	:	-		1	1	Tetter		1	1	1	1
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Males	1	;	-	1	01	-	-	20	7	13	*	1	13	63		1	1	1		1
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Males	1	1	1	1	1	- 1	1	11		- 1	10	-	60	-	Throat, Inflam of	i	1	11	1	1
Females	1	1	1	1	1	- 1	1	100	7	. ;	93	Q1	1	64		i	1	-1	-	
Males	;	+	- !	1	-	1	1	- 4	-	-	-	F	1	1	Throat, Paral. of	i	1	1	1	- 1
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Malos	F	1	1	T	1		- 1	+	-	10	64	-	1	*		1	1	±\$	1	1
Females	-	-	1	4	-	- 1	, t		04	64	1	-	0	01		1	4	1	:	3
Males	1	1	1	1	1	1	1		1	4	1	•	i	-	Throat, Ulceration of	i	:	1	:	
Femalos	1	1	1	i	:	1	1	- 0	;	-1		•	1	04		1	1	:	1	4
Males		+	-	1	;	1	:		-	1	1		i		Thrombosis	1	:	11	:	:
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TABLE XVII.—Continued.—Specified Causes of Death.

			~	[0]	Мокти		8, 1850.							YE.	YEARS.					AG	) K8	AGES IN PERIODS OF	ē.	ERI	0.0	0	4	YEAR8.—1850.	138.	-18	8			
SEX.	Tebruary.	March.	April.	May.	June.		August.	October.	Хочетрег.	December.	Unknown	1880.	16281	.8781	.5781	1878.	1875.	CAUSES OF DEATH.	Under 5.	10 to 15.	15 (0 20,	50 to 52°	.03 to :80.	30 to 85.	32 to 40.	40 to 50.	201 (02)	65 to 60.	in to G5.	65 to 70.	,67 01 07 (No 01 65 )	75 to 80.	Unknown.	•
Males	<u>;</u> -	<u> </u>	;	:	<del> </del>	<del>  - ;</del>	<del>  - :</del>	<del>                                     </del>	<u> </u> :-	:			_					Tonsilitis		<u> </u> :	اا			i :	i —	;   ;	<u>  :</u>	<u>                                     </u>	:	i :	<del> </del>	<del>  :</del>	! :	
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Malos		<u>·</u>	:	:	- <del>:</del> -	:-	<del>- :</del> -	<del>:</del>	<del>-:</del> -			i	_					Trichiniasis	- <u>÷</u>	_ <u>:</u>	<u> </u>	:		:	÷	$\div$		:	<u>:</u>	:	$\div$	<del>:</del>	<del>-</del>	
Fomules	<u>:</u> :	-:-	:	:	<del>-:</del> -	:-	<del>-:</del>	<u>:</u>	÷	:	÷	- :	1	•	:				<u>;</u>	<u>:</u>	<u>:</u>	:		:	-÷	$\div$	<u>:</u> :	:	:	-:	÷	$\frac{\cdot}{\cdot}$	<del>-:</del>	
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TABLE XVII.—Continued.—Specified Causes of Death.

				Á	H	H8,	Мочтив, 1880.							YEARS.	6					•	A E	AGES IN PERIODS OF	Z,	BR1	0	6 6	<b>⊶</b> De	YEARS.—1880	, 20	<u> </u>	s.	
SEX	Vebruary.	March.	May.	June.	July.	Yngner.	September.	October.	November.	December.	Unknown.	1880.	.0781	1878.	.7781	1926	1875.	CAUSES OF DEATH.	Under 5.	2 to 10.	10 to 10.	10 to 20.	£5 to 30.	30 to 35.	35 to 40.	40 to 45.	.86 to 56.	.08 os &&	.07 ot 68	70 to 75.	75 to 80.	19YO DER UK
Males	-	01	- 04	17	-		01			1		=	7	6	=	64	10	Tumor (Unspecified).	1		- ;	- 1	-		1	- 5	64	- 1	10	1	1	
Females	63	i	97	1	1		12.0		-	01		14	ōi	21	=	14	=	* **	40	- 1	4	-	-		-	-	90	-	44	91	-	- 1
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Males	1	-	1	1	1		:		1	- 1		-	1	1	1	-	1	Tympanitis	1	- :	- ;	-	:	-	:	- ;	:	- 1	- 1	:	1	- 1
Males	1	:	1	1	1		i		1	1	- 1	1	-	1	i	1	1	Ulcer on Back	1	-1	i	1	;		1	À.	-:	. 1	- 1	- 1	13	:
Females	1	1	-	1	1		1		1	1	-	-	Ť	1	1	1	1	Ulcer on Brain	1		1	-			-	1		:		- 1	1	-
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Males		7	- "		-1	1	- 1		1	- {	4.	1	1	i	1	1	1	Ulcer on Penis	1	-1	i	1		- 1	1	- 1	1	1	:	- ;	1	- 1
Maios	1	+			1	1	;		1	1	- 1	1	1	1	-	1	1	Ulcer near Pylorus	1	1	1	1	- 1		-	_;	:	1	1	- 1	- 17	- }
Males		Ĭ.			1	1	1		1	1	_	-	1	1	-	1	1	Ulcer of Rectum.	1	· ·	1	- :	- ;	,	1	- :	3	1	_	1	- 1	- 1
Males	1	4	-		1	1	1		1	:	i	i	1	-	i	1	1	Ulcers on Side	1	1		_	1		:	1	1	:	1	- 1	3	4
Fomales	1	:	1		!	1	-1		1	-	1	-	1	+	1	1	1		1	1		1	- 1	-	- 1	:		1	- 1	- 1	- ;	:
Males	1	-;	+		:	1			:	1	1	1	Ť	1	i	1	1	Ulcer of Throat	i	1	1	- 1			-:	1	:	3	1	- ;	:	1
Total	1	1	:		91	1	-		ï	+	:	1-	+	0	10	œ	10	Ulcers (Unspecified)	-	1	-1	. 4			-	:	-	04	7	_	-	.;
Males	1		-		04	1	-		1	1	;	10	64	*	*	7	*	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	1	- 1	1	-	1	1	-	64	- 1	-	- 1	- (
Females	1	-0	1		1	1	1		1	-	7	01	01	-	*	-	7		1	-:	-	- 1	- 1	- 1	+	-	:	1	-		=	-1
Total 78 99 94	78 99	76	17,9	98 91	33	139	165	22	15	641	12	1111	1399 13	1306 13	1393	1233	1388	Unknown	006	40	19	17 17	8	18	20 24	5	55	55	39 32	4	81	55
Males	36 58 48		68 57 44	7	1	13	89	69	3	20	-	775	136	7 807	745	629	739		201	75	æ	9 7	=		6 11	Ξ	=	00	21 15	33	62	=
Females 41 40 48	11 40		47 41 47	17	2	83	2.6		49	17	01	509	658	595 6	636	558	649		335	16	133	8 10	-	13	2	13 10	=	23	18 17	16	3	24
Unknown. 11 1	-	_3	G	1		-			-			1	10	00	15	16	10					_		-	-	_			-	_		

Males		:	:	1	-				-			•						:	:			•		
Females		÷	1		11	1		1	:	;	1	1		24	1	1		1	1	1	T	i	1	- (
Males		+	:	1		1		1	1	1	1	1			1	1	Urinary Organs, Dis. of	-	1	1	-1	i	1	1
Males		1	1	1	1	1		1	- 1	1	1	1	-		-	1	Urine, Retention of	1	1	+	1	i	1	1
E Females		1	-	:		1			:	1	64	-	-	CH	-	C.	g Uterine Tumor	1	1	-	1	ì	-	- ;
Females	:	1	1	1	-	-	1.7	1	-	-	П	1	_b	1	-	-	Uterns, Abscess of	-	;	1	1	i	+	:
Females		+	:	1		1		i	:	i	1	1			1	-	Uterus, Cauliflower Ex. of	+	;	+	:	i	1	3
O Females	-	-	-	-1	4	1		-	:	-	04	60	69.	-		-	Uterus, Dis. of	-	1	1	:	1	1	1
Females		1	1	1	4	12	. 13.		-	5	-	1	-	- 1	- 1	1	Uterus, Fibrous Tumor of	+	:	-	1	i	+	- ;
Females	1	-	20	-1	-	24			-	01	11	9	+	+	10	-	Uterus, Infam. of 1 2	40	1	1	1	i	1	-;
Females		1	:	4	-	1	- 0	- 1	1	1	1	:			-	1	Uterus, Rupture of	1	1	+	- 1	i	:	- 1
Fomales		-:	1	1		1	-	;	1	1	:	;	- 7	-	1	94	g Uterus, Ulceration of	1	1	1	-1	i	1	:
Total	- 1	+	:		- 1		-	-	:	1	01	1	- 4	1	*	i	Venercal Discase	:	1	:	-	-	1	1
Malcs	1	1	- 1	4	-	1	-	-	-	1	1	i			01	- 1		1	1	1	4	-	1	:
Femalos		1	1	1			-	1	-	4	1	;	····V	14	C.s	1		1	¥	1	-	T)	1	- 1
Females		:	-	1	10	1	- 4	- (	1	1	1	-		-	. 7	i	Vomiting	1	1	+	T.	1	:	:
Males		1	:	1.1		1		i	:	1	1	-	- 7	-	1	1	White Swelling	+	1	1	1	1	1	:
Females		+	- 1	11	-	.;		1	1		-	1		-	7.1	i			4	1	1	1	7	- 1
Total	4 12 21		16 12	9	9 68	63 30	93	9 21	=	1	264	162	132	131	181	101	Whooping-cough 252 11 1	1	-	- 1	-1	1	+	- ;
Malcs	3 8 10		10	40	2	21 15	12	20 10	-		119	11	19	19	8	43	115 4	1	-1	1	1	1	1	- 1
Fomnles	1 4 11		11 4	=	62	32 18	8	-	-	;	145	8	89	70	60	88	137 7 1	1	1	:	- ;	1	:	3
Fomales		1	1	-1		1		1	1	1	1	1	- 1		1	1	Wind-pipe, obstruct'n in	-	3	:	-1	1	;	:
Males	1	1	-	1		1		1	1	1	1	65	90	63	00	i	Worms	1	1	:	-	;	1	1
Femalos	-	1	1			:	_	1	1		*	7	00	64	60	20		1	1	:	1	;	-	- 1
Males	1	-	1	1		1	_	_	1	1	01	1			-	Ci	Wounds, Army	1		1	1	1	1	1
Males		1	1	1		1		:	1	1	1	1	-	*	9	-	Wounds	1	1	-	-1	1	1	:
Females		1	1		-		_	1	_		1	21		-	- 8			:	1;	1	.;	1	3	- 1

More deaths were returned as having occurred from causes compiled as casualty in 1880 than for any previous year. Many of those specified in Exhibit R are undoubtedly the result of carelessness, and might have been avoided. They are printed in the hopes of saving the lives of some who, having seen these causes of death, may thus be placed on their guard. As may be seen, accidental shooting caused the death of 24 persons during the year.

EXHIBIT R .- Deaths in Michigan in 1880, Compiled as Casualty.

	_	•	Σ,
CASUALTY,—CAUSES AS RETURNED.	Num- ber.	CASUALTY,—CAUSES AS RETURNED.	Num- ber.
Total number tabulated as Casualty in Table XVII	840	Accident on mill-saw	1
		Killed in paper-mill	1
Run over by a team	1	Cut by saw in planing-mill	1
Accident,—team ran away	5	Killed by railroad	2
Fall in mine	1	Killed by switching cars	1
Fall from wagon	4	Killed by railroad locomotive	8
Result of a fall	18	Killed by railroad bridge	1
Falling from chair	1	Accident in car-shop	1
Foll down stairs	1	Killed by a horse	8
Fell from building	2	Kick from a horse	13
Affection of brain caused by a fall	1	Killed by being thrown from a horse	1
Old age and fall-fracturing knee	1	Killed by falling building	1
Falling on a sharp stick	1	Killed by falling sapling	1
Fall from load of hay	1	Killed by falling limb	1
Accident—fell off steps	1	Killed by caving in of bank	1
Broke his neck from fall off load of wood	1	Iron door fell on him	1
Killed by a fall on schooner	1	Killed in lumber camp	2
Accidental falling down cellar	1	Killed on rollway	1
Fell in steam-box in basket-factory	1	Killed in lumber woods	3
Explosion in mine	1	Killed by log rolling on him	8
Bursting of cannon	1	Killed by a tree	5
Bursting of gun	1	Accident on log rollway	1
Bursting of balance-wheel on sawing-	1	Killed in mine	31
Saw-mill explosion	1	Killed by shooting	1
Boiler explosion	10	Accidental shooting	24
Explosion	1	Killed by a team	1
Run over by cars	4	Neck broken by upsetting sleigh	1
Run over by a roller	1	Thrown from carriage	1
Run over by a sleigh	1	Thrown from wagon	
Run over by a wagon	4	Killed on dock	1
Run over	1	Killed by belting	1
Killed in saw-mill	8	Killed by a bull	1
Killed in mill	6	Killed	7
	<u> </u>	II	

## EXHIBIT R .- CONTINUED.

CASUALTY,—CAUSES AS RETURNED.	Num- ber.	CASUALTY,—CAUSES AS RETURNED.	Num- ber.
Killed by an ax	1	Injury	9
Killed by machinery	3	Drinking lye	1
Accidental injuries	4	Over exertion in lifting sack of flour	1
Accidental and infirmity	1	Struck by a lever	1
Accidentally swallowed a button   which lodged in windpipe	1	Injury before birth	1
Accident to bronchial tube	1	Injured by a cow	1
Accidental	109	Caving in of well	9
Broken neck	2	Internal injuries	1
Broken legs—cut off above the knee	1	Jumping and skipping the rope	1
Hurt by a cow, hip broken	1	Injuries from horse hay-fork	1
Choked with a bean	1	Suffocated from straw in throat	1
Lost by wreck of boat Alpena	3	Lost and died in a marsh	1
Cyclone	1	Steamboat collision	4
Eating glass	1	Killed by sharp pointed instrument	1

EXHIBIT 9.—Certain facts concerning Persons Returned as having died by Suicide in Michigan during the Year 1880.

DATE OF DE	ATH.		Condi-	_				
MONTH.	Day.	Age.	tion.	Sex.	Color.	Occupation.	Nativity.	Means Used
anuary	12	82	8.	M.	w.	Unemployed	Connecticut	Shooting.
anuary	14	85	M.	M.	w.	Brewer	Germany	Shooting.
anuary	20	18	8.	F.	w.	Waiter	Michigan	Strychnine.
anuary	22	Unk.	w.	M.	w.	Not given	Europe	Not given.
ebruary	7	64	M.	M	w.	Laborer	Germany	Not given.
ebruary	11	18	8.	F.	w.	Not given	Pennsylvania	Not given.
Pebruary	15	46	M.	м.	w.	Sailor	England	Poison.
(arch	10	48	M.	М.	w.	Drayman	England	Hanging.
Larch	10	27	S.	M.	w.	Student	Texas	Not given.
(arch	14	17	S.	M.	w.	Laborer	Michigan	Not given.
farch	15	42	M.	М.	w.	Farmer	New York	Not given.
arch	19	83	M.	M.	w.	Farmer	New York	Not given.
farch	29	40	w.	M.	w.	Farmer	Saxony	Not given.
pril	1	86	8.	F.	w.	House-keeper	Michigan	Hanging.
April	4	28	8.	M.	w.	Not given	Michigan	Not given.
April	7	42	M.	M.	w.	Not given	England	Not given.
pril	8	- 35	s.	М.	w.	Saloon keeper	Michigan	Shooting.
April	8	74	M.	M.	w.	Farmer	Germany	Hanging.
April	11	22	ន.	F.	w.	Not given	Indiana	Morphine.

EXHIBIT 9.—CONTINUED.—Suicidal Deaths, 1880.

DATE OF DEA	ти.	1						
MONTH.	Day.	Age.	Condi- tion.	Sex.	Color.	Occupation.	Nativity.	Means Used.
April	13	69	w.	М.	w.		Germany	1
April	19	18	S.	F.	w.	1	New York	ŀ
Мау	1	26	M.	M.	w.	ľ	Michigan	1
Мау	2	65	M.	M.	w.	1	New York	1
May	2	15	8.	M.	w.	1	New Jersey	1 ~
May	2	66	M.	M.	W.	Farmer	New York	Not given.
Мау	10	42	M.	M.	w.	Sailor	Germany	Not given.
<b>М</b> ау	14	27	Unk.	M.	w.	Not given	New York	Drowning.
Мау	14	45	M.	M.	w.	Minister	Ohio	Shooting.
May	24	49	M.	М.	w.	Blacksmith	Germany	Not given.
May	Unk.	83	S.	M.	w.	Farmer	Michigan	Not given.
June	15	36	M.	M.	w.	Farmer	Canada	Not given.
Juno	15	65	M.	M.	w.	Cigar-maker	Germany	Not given.
June	20	50	M.	F.	w.	House-wife	Ohio	Hanging.
June	20	44	s.	F.	W,	House-keeper	New York	Not given.
June	25	45	M.	M.	w.	Not given	Canada	Drowning.
June	27	28	M.	F.	·w.	Wife	Germany	Not given.
July	19	83	s.	M.	w.	Clerk	Not given	Not given.
July	20	22	S.	F.	w.	1	Not given	li .
July	26	Unk.	M.	M.	w.	Not given	Not given	Not given.
August	15	52	M.	M.	w.	Farmer	New York	Hanging.
August	23	69	w.	F.	w.	1	New Jersey	1
August	25	20	M.	F.	w.	1	Michigan	1
August	27	32	s.	M.	w.	1	Germany	l .
September		26	s.	M.	w.	Į.	l .	Butcher-knife.
September	1	45	M.	M.	w.	1	Holland	Į.
September	1	58	M.	M.	w.	Laborer	New York	Not given.
September	1	1 52	M.	M.	w.	l .	New York	1
September	ì	22	s.	M.	w.		Michigan	1
September	1	23	M.	F.	w.	1	Michigan	1
September		52	M.	F.	W.	1		Cutting throat.
October		85	M.	F.	w.		Canada	
October	1	37	Unk.	M.	w.	1	Germany	
November	1	69	M.	M.	w.	Laborer		1
November	1	29	s.	M.	w.	1	Rhode Island.	1
November	1	66	M.	M.	w.	1	England	1
	1	60	M.	M.	w.	1	New York	l .
November	1	25	M.	F.	w.	ì	Germany	l .
November							1	1
November	1 29	51	M.	M.	w.	rarmer	. Germany	· Tranging.

## EXHIBIT 9.—Continued.—Suicidal Deaths, 1880.

DATE OF DEATH.	Age.	Condi-	Sex.	Color.	0000	pation.		Nativity.	Va	ans Use	_
MONTH. Day.	Age.	tion.	Sex.	Color.	Occu	pation.	_ _			BILS UNC	u. 
December 24	50	M.	M.	w.	Farme	·	c	anada	Hangi	ng.	
December 24	60	Unk.	M.	w.	Not giv	en	N	ot given	Cuttin	g thro	at.
December 25	52	M.	M.	W.	Labore	r	M	lichigan	Not gi	ven.	
December 28	53	M.	M.	w.	Farme	r	N	ew York	Not gi	ven.	
December 28	86	M.	M.	w.	Carpen	ter	c	anada	Poisor	٥,	
December 30	27	M.	M.	w.	Book-k	eeþer.	E	ingland	Not gi	ven.	
Unk Unk.	27	8.	M.	w.	Farme	r	M	lichigan	Not gi	ven.	
OCCUPATIONS	•	No.		Occur	RATIONS	•	No	OCCUP	ATIONS	<b>.</b>	No
Accountant			Farme	ers			. 19	Student			
Blacksmith			House	-keep	ers		.  .  8	Unemployee	d		
Book-keeper	•	1	House	-wive	8		. 2	Unknown			. 1
Brewer		1	Labor	ors			. 8	Waiter			-i
Carpenter	· · · · · · · · ·	1	Millin	er			. 1	Wife			-
Cigar-maker	<b></b>	1	Minis	ter	•••••		. 1				<u> </u> _
Clerks		2	Prost	itute .			. 1	Total			. 6
Domestic		1	Sailor	s	· • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	. 2	:			
Drayman		1	Saloon	n-keep	or	• • • • • • • • • • • • • • • • • • • •	- 1				
NATIVITY.		No.		NAT	IVITY.		No	NAT	IVITY.		No
Canada		6	India	na			. 1	Rhode Islan	d		. -
Connecticut		1	Michi	gan			.   12	Saxony			
England		5	New J	Jersey.			. 2	Texas			-j
Burope		1∥	New	York			.   12	Unknown		<b></b> -	-
Germany		18	Ohio .				. 8				<u> </u>
Holland		1	Penn	sylvan	ia	• • • • • • • • • • • • • • • • • • • •	-  1	Total			. 6
	Nu	BER.				Num	BER.	11		Num	BRR.
Means Used.	Males.	Fo- males.	ME	ANS U	SED.	Males.	Fe- male	MEANS U	SED.	Males.	Fe- male
Butcher-knife	1		Morp	hine			1	Unknown		28	
Outting throat	1	1	Poiso	n	••••	2	2	:			
Offering entone						1 _ 1		11		ı	
Drowning	. 8	1	Shoot	ing		7		. Total		50	1

In Table XVIII. are presented the fifteen principal causes of death in Michigan in 1880, arranged in order of their fatality, the greatest first. These principal causes of mortality accounted for over 58 per cent. of the deaths whose causes were reported in 1880. Consumption, as usual, is at the head of the list, having caused 11.36 per cent. of all the deaths returned for the year. Diphtheria, this year, as in the previous two years, is second in the list, attesting its continued fatality, and was quite generally distributed throughout the State. Pneumonia is third, and has always been a leading source of mortality in this State.

Exhibit T gives the order of succession of fifteen principal causes of death for each of the years 1873-1880, and permits of some interesting comparisons in regard to the standing of diseases in different years. Consumption heads the list in all the years, but the other causes of death are subject to changes from year to year. Note the sudden rise of diphtheria from sixteenth place in 1875 to tenth place in 1876, third place in 1877, and second place in 1878, 1879, and 1880.

TABLE XVIII.—Order of Succession of Fifteen Principal Conditions and Causes of Death in Michigan in 1880, according to the Returns, Exhibiting for each Specified Condition and Cause, by Sex, the Number of Deaths, and the Per Cent. of Deaths from each Cause to Deaths from All Causes.

SR.	SPECIFIED CAUSES AND	Numi	SER OF DE	ATUS.			OH CAUSE L CAUSES.
ORDER.	CONDITIONS, 1880.	Total.	Males.	Females.	Total.	Males.	Females.
1	Consumption	1,829	817	982	11.36	9.80	13.25
2	Diphtheria	1,542	744	798	9.53	8.61	10.77
3	Pneumonia	812	479	833	5.04	5,54	4.49
4	Still-births	a 739	403	301	4.58	4.66	4,08
5	Old Age	625	317	308	3.83	3.67	4.16
6	Fever, Typhoid	513	285	228	8.19	3,30	3.08
7	Cholera Infantum	ե 499	286	211	8.10	3.31	2.85
8	Heart Discase	414	236	208	2.76	2.78	2.81
9	Apoplexy and Paralysis	389	209	180	2.42	2.42	2.43
10	Scarlet Fever	c 870	197	172	2.30	2.28	2.32
11	Convulsions and Fits.	847	187	160	2,16	2,16	3,16
12	Casualty	340	803	37	2.11	3.50	.50
13	Diarrhead	310	186	124	1.93	2.15	1.67
14	Brain, Inflammation of	c 300	176	128	1.86	2.04	1.68
15	Cancer	284	111	173	1.76	1.28	2.83
	Total	• 9,342	4,966	4,338	58.02	57.44	58,54
	All Causes	f 16,102	8,645	7,410	100.00	100 00	100 00

[·] Includes 84 unknown sex.

[•] Includes I unknown sex. • Includes 38 unknown sex.

b Includes 2 unknown sex.
d Includes acute and chronic.
f Includes 47 unknown sex.

EXHIBIT T.—Order of Succession of Fifteen Principal Causes of Death in Michigan for each of the Years 1875-80.

ORDER.	1975.		1876.		1877.		1878.		1579.		1980.	
_	Consumption	-	479 Consumption	1,590	1,590 Consumption	1,654	1,664 Consumption	1,641	1,641 Consumption	1,680	1,680 Consumption	1,829
04	Pncumonia	745	745 Still born	919	616 Still-born	730	720 Diphtheria	837	837 Diphtheria	1,473	1,473 Diphtherla	1,642
63	Still born	8	629 Pucumonia	250	627 Diphtheria	593	593 Still-born	783	793 Still.born	149	749 Pneumonia	8
*	4 Typhold Fever	£83	133 Old Age	483	483 Old Age	480	IND Old Age	679	579 Pnoumonia	70	701 Still-born	788
9	5 Scarlet Fover	493	423 Typhold Fever	436	426 Pneumonia	465	165 Pneumonia	462	fes Old Age	8	Old Age	625
•	6 Old Ago	873	373 Scarlet Fever	833	399 Typhold Fever	416	446 Scarlet Ferer	83	429 Scarlet Fever	418	418 Typhoid Fever	513
1-	7 Cholera Infantum.	88	280 Apoplexy and Paral.	237	337 Scarlet Fever	101	104 Heart Disease	332	332 Heart Diseaso	7	414 Cholora Infantum.	<del>2</del>
00	8 Hoart Discase	288	289 Cholera Infantum.	23	831 Cholera Infantum.	370	370 Typhoid Fever	33	32) Typhoid Fever	2607	397 Heart Disease	#
6	9 Diarrhea	283	283 Heart Disease	330	820 Heart Discase	367	367 Apoplexy and Paral.	338	328 Apoplexy and Paral.	88	858 Apoplexy and Paral.	88
9	10 Apoplexy and Paral	259	259 Diphtheria	31	311 Apoplexy and Paral	828	329 Convulsions and Fits	82	288 Cholcra Infantum	8	300 Scarlet Fever	370
=	11 Convulsions and Fits	223	233 Diarrhea	70%	304 Convulsions and Fits	888	298 Cancer	£02	269 Convultions and Fits		275 Convulsions and Fits	347
13	12 Brain, Ind. of	232	232 Brain, Infl. of	275	275 Brain, Ind. of	183	291 Dropsy	518	249 Cancer	272	272 Casualty	340
23	13 Bowels, Infl. of	818	218 Convulsions and Fits	275	275 Cancer	265	265 Cholora Infantum.	213	243 Dropsy	580	260 Diarrhes	810
=	14 Casualty	215	215 Cancer	35	241 Dlarrhea	265	265 Brain, Infl. of	225	225 Casualty	245	245 Brain, Infl. of	8
5	15 Dropsy		215 Bowels, Infl. of	583	289 Bowels, Infl. of	87.5	226 Bowels, Infl. of	113	214 Bowels, Infl. of		237 Cancer	193
1												. '

TABLE XIX.—Deaths from Ien Specified Causes Returned as having occurred in Michigan, during the Year 1880, Exhibiting the Number of each Sex, Total Number in each Month, and at different Periods of Age.

					CAU	ses of I	PATH,—	1880,			
£	SEX, MONTHS, AND AGES.	Cancer.	Cepha- litis.	Croup.	Diar- rhea.b	Diph- theria.	Dysen- tery.c	Monsics.	Scarlet Fever.	Typhoid Fever.	Whooping Cough.
	Total	284	300	322	810	1,542	160	125	870	518	264
ĸ	Males	111	178	183	186	744	87	58	197	285	119
SEX.	Fomales	178	123	139	124	798	73	67	172	228	145
	Unknown		1						1		
	January	12	19	34	5	99		5	25	22	4
	February	16	18	80	6	74	1	7	22	13	12
	March	16	24	21	6	99	5	7	80	22	21
	April	20	16	20	3	116	2	22	42	28	16
	May	32	21	15	9	71	5	19	85	20	12
	June	17	25	19	23	82	12	12	23	19	16
MONTHS.	July	30	38	16	86	117	34	7	20	85	39
OXO	August	35	33	15	90	134	38	10	84	78	58
Ħ	September	31	36	22	49	161	37	12	21	92	30
	October	26	27	87	17	186	14	15	28	87	29
	November	27	16	48	9	198	6	9	46	58	21
	December	21	27	45	7	200	6	10	43	44	11
	Unknown	1				5			1		
	Av. Monthd	24	25	27	26	128	13	10	81	43	22
	( Under 5	10	202	264	273	663	124	90	235	47	252
	5 to 10	1	33	53	5	542	8	19	97	28	11
	10 to 15	1	7	3	2	238	1	3	24	89	
	15 to 20	3	9		1	55		5	5	78	1
	20 to 25	2				21	1	8	2	74	
	25 to 30	6	6	1	8	4			1	57	
	80 to 35	7	7	1			2		1	22	
	85 to 40	16	8		3	1	1	1	<b> </b>	27	
6	40 to 45	23	4		1	4			 	22	
AGES.	45 to 50	37	2	l		1	1	8	1	24	
•	50 to 55	20	8	<b></b>	2		1	l	<u> </u>	14	
	55 to 60	33	1		2	2	1			18	
	60 to 65	36	8	1	4	1	8	1		17	
	65 to 70	29	6		1		8			15	
	70 to 75	23	1		5	1	6	l		12	
	75 to 80	17	1		2		1		1	9	
	80 and over	8	<u></u>		8		7		<b></b>	2	
		1	1		8	9	ļ		, R	1 -	
_	(Unknown	8	1		8	9			8	18	J

a Includes 65 Membranous Croup, and 1 Spasmodic Croup. b Includes 14 Chronic. • Includes . 5 Chronic. • Excluding unknown month.

TABLE XX.—Per Cent. of Deaths returned as having occurred in Michigan during the Year ending December 31, 1880, from each of Ten Specified Causes to Deaths from All Causes; and Per Cent. of each Sex, of Deaths in each Month, and at different Periods of Life to Total Deaths from each Specified Cause.

_	BY MANTHE			CAUSES	OF DEA	ти,—1880	S ERR C	ENT. OF	TOTAL.		
	EX, MONTHS, AND AGES.	Cancer.	Cepha- litis.	Croup.	Diar- rhea.	Diph- theria.	Dysen- tery.	Measles.	Scarlet Fever.	Typhold Fever.	Whoop- ing Cough.
Per	Ct. of All Causes	1.76	1.86	2.00	1,93	9,58	.99	.78	2.30	3,19	1.64
	Males	39,08	58.67	56.83	60,00	48,25	54,38	46.40	53.24	55,56	45.08
SEX.	Females	60,92	41.00	43.17	40,00	51.75	45.62	53.60	46,49	44.44	51.92
άĝ	Unknown		.33						.27		
	January	4.23	6.33	10,56	1.61	6.42		4.00	6,76	4.29	1.52
	February	5.63	6,00	9,32	1.94-	4.80	.63	5.60	5,95	2,53	4.55
ļ	March	5.63	8,00	6.52	1.94	6.42	3,13	5.60	8.11	4.29	7,95
Ì	April	7.04	5.33	6,21	.97	7.52	1.25	17.60	11.35	5.46	6,06
	May	11.27	7.00	4,66	2.90	4.60	3.13	9.60	9.46	3,90	4.55
	June	5.99	8.33	5.90	7.42	5,32	7.50	9.60	6.22	3.70	6.06
Ä	July	10.58	12.67	4,97	27.74	7.59	21.25	5,60	5.41	6,82	14.77
MONTES	August	19.32	11.00	4.66	29.03	8,69	23.75	8,00	9.19	14.23	20,08
7	September	10.02	12.00	6,83	15.81	10.44	23.13	9,60	5,68	17,93	11.36
`	October	9.15	9.00	11.49	5.48	12,06	8.75	9,60	7.57	16,96	10.98
	November	9,51	5.33	14.91	2,90	12.84	3.75	7.20	12,43	11.31	7.95
	December	7.39	9,00	13.98	2.26	12,97	3,75	8.00	11.62	8,58	4.17
	Unknown	,35				.32			.27		
	Av. Month	8.33	8.33	8,33	8.31	8.33	8.33	8,33	8,33	8.33	8,33
,	( Under 5	3.52	67.33	81.99	88.06	43.00	77,50	72,00	63.51	9,16	95,45
	5 to 10	.35	11,00	16.46	1.61	85,15	1.88	15.20	26,22	5.46	4.17
	10 to 15	.35	2,33	.93	.65	15,43	.62	2.40	6,49	7,60	
	15 to 20	1.06	3.00		.32	3.57		4.00	1.35	14.23	.88
	20 to 25	.70	2,00			1,36	.62	2.40	.54	14.42	
	25 to 30	2.11	2,00	.31	.97	.26			.97	11,11	
	80 to 85	2.46	2.33	.31			1.25		.27	4.99	
	85 to 40	5,63	2,67		.97	,06	.62	.80		5,26	
AGES.	40 to 45	8,10	1,33		.32	.26				4.29	
PQ 1	45 to 50	13.03	.67			.06	.62	2.40	.27	4.68	
	50 to 55	10.21	1.00		.65		,63			2.73	
	55 to 60	11.62	.33		.65	.13	.63			3.51	
	60 to 65	12.68	1.00		1.29	.06	1.88	.80		3,29	
	65 to 70	10,21	2,00		.32		5,00			2.92	
	70 to 75	8.10	.33		1.61	,06	3,75			2.84	
	75 to 80	5,99	.33		.65		.63		.27	1.75	
	80 and over	2.82			.97		4,38			.39	
	l Unknown	1.06	.33		.97	,58		1	.81	2,53	

a Excluding deaths in unknown month.

In Tables XIX. and XX. are given the numbers and per cents of deaths from each of ten specified causes in each month and period of age for the year 1880; and show the prevalence of these diseases at different seasons of the year and at different periods of life. Thus, of deaths from diphtheria and croup, the largest numbers were in the months of October, November, and December; while the ages of the decedents were almost entirely those of children under fifteen years. The deaths from diarrhea and dysentery were of course chiefly in the summer months of the year, while the deaths from typhoid fever were largely in August, September, and October. These diseases are again studied farther on in this Report in connection with meteorological conditions.

Cancer.—This terrible disease caused 284 deaths in Michigan in 1880; 272 deaths in 1879; 269, in 1878; 265, in 1877; 241, in 1876; 202, in 1875; 188, in 1874; 171, in 1873; 130, in 1872; and 105 deaths in 1871. This shows a constant increase in the mortality from this disease in the ten years 1871–1880. Of the deaths reported from cancer in 1880, over 60 per cent. were females, and in every year there has been an excess of that sex. The deaths were most numerous in the months of July, August, and September, and between the ages of forty and seventy. The location of the disease was not stated in 123 cases of the 284, which is a fact much to be regretted. As shown by Exhibit 8, the part of the body affected was stated in 161 cases, and cancer of the stomach and breast was most frequent.

EXHIBIT S.—Deaths from Cancer Returned as having occurred in Michigan during the Year 1880, indicating part of body affected.

As RETURNED.	Total.	Males,	Fo- males.	AS RETURNED.	Total.	Males.	Fe- males
Cancer of Womb	22		22	Cancer on Lip	1	1	
Cancer of Stomach	59	36	23	Cancer of Pancreas	1	1	
Cancer in Neck	1	1		Surgical Operation for Cancer	1		1
Cancer in Breast	29	1	28	Cancer of Knee	1	1	
Cancerous Tumor, left side	1		1	Cancer of Throat	3	3	 
Oancer of the Chin	1	1		Cancer of Knee-joint and Amputation	1		1
Internal Cancer	2	1	i	Cancer of Fore Arm	1		1
Cancer of Mouth	3	2	1	Cancer of Kidneys	1	ı	
Cancer of Boweis	10	4	6	Cancer of Spine	1		1
Cancer of Face	6	8	8	Total Specified	161	64	97
Cancer of Liver	9	5	4	Cancer (Unspecified)	123	47	76
Oancer on the Tongue	4	2	2				<u> </u>
Cancer in Chest	1		1	Aggregate	284	111	178
Cancer in Groin	1	1				1	l

An examination of Exhibit Z will give the reader some idea of the indefinite expressions and generalities which are made to take the place of specific causes of death. Although it is not surprising that these inaccuracies should exist in the returns, when it is remembered that the information is derived from varied sources, still, it is hoped that these various names returned will soon give place to more exact terms.

EXHIBIT Z Deaths in Michigan in 1880, Compiled	I as	Unknown.
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CAUSES AS RETURNED.	Males.	Fe- males.	Un- known.	CAUSES AS BETURNED.	Males.	Fe- males.	Un- known.
Total number compiled Un- known in Table XVII	775	662	7	Found dead		1	
	-			Inflammatory dirutoris			
A distemper	1			Lingering sickness		1	
Asscess		1		Malpractice	1	1	
Belching	1			Miners' decline	1		
Canker of brain	1			No disease		1	
Complicated disease		1		Neura	1		
Complication		2		Operation		1	
Complication of diseases	2			Organic change		1	
Congestion	14	7		Painters' consumption	1		
Consumption of nerves	1			Parenatis		1	
Dastritis	1			Pearlatus		1	
Dissipation	1			Premature death		1	
Dropped dead in the road Enlargement of glands—be- ing scattered by medicine	1			Sileritis		1	
ing scattered by medicine		1		Sores		1	
Eruption	1			Stagnation of blood	1		
Exhaustion	4	5		Supposed to be caused by an assault	1	<b> </b>	
Female trouble		1		Suppression of menses		1	
Female weakness		1		Unknown	740	631	7

Cephalitis.—According to the returns there were 300 deaths from this disease in 1880, of which 176 were males, 123 were females, and in one case the sex was not stated. The number of deaths from cephalitis for each of the years 1869–1880, the greatest first, is: in 1873, 333; in 1872, 330; in 1880, 300; in 1877, 291; in 1876, 275; in 1874, 261; in 1870, 233; in 1875, 232; in 1869, 226; in 1878, 225; in 1879, 222; and in 1871, 216. From this, it appears that the largest number of deaths was in the year 1873, and the smallest number was in 1871. In 1880, the largest number died in July, and over 67 per cent. of all the deaths from this disease were of children under five years of age.

Measles.—This disease was less prevalent and fatal in 1880 than in 1879, there being 42 more deaths in the latter year than in the former. It seems to be a disease of spring and early summer, and most fatal with children under ten years of age. Of the 125 deaths recorded in 1880, 36.80 per cent. of them were in the months of April, May, and June, and 87.20 per cent. were under

ten years of age.

Whooping-Cough.—The returns for 1880 show a decided increase in the mortality from this disease of infants and children; there were 264 deaths, against 162 in 1879. The average annual mortality for the ten years 1871–1880 is 159, which shows the year 1880 to be much more than an average one, as regards deaths from whooping-cough. The largest per cent. occurred in August, and 95.45 per cent. were under five years of age. There has been an excess of females for every year except 1872 and 1873.

## METEOROLOGICAL CONDITIONS, AND THEIR RELATIONS TO DEATHS.

The following tables and diagrams, showing the principal meteorological conditions as observed at the office of the State Board of Health, in Lansing, and at the State Agricultural College, are here introduced for the purpose of comparing these tables with those of deaths from many of the most important diseases. The months in these tables are arranged in order, those in which the most deaths occurred being placed first, and the other months following in the order of their mortality. The meteorological data are printed in the tables in connection with the statements relative to deaths from the different diseases, so that reference may easily be made from one to the other in the study of any particular disease.

The variations of the temperature from month to month during the year 1880 and a number of preceding years may be seen in Exhibit 10 and Diagram No. 6. From the diagram it is seen that in January, 1880, the temperature was much higher than the average for ten years or any preceding year.

EXHIBIT 10.—Temperature.—Average by Years and by Months, for the Years 1871 to 1880 inclusive, at the Agricultural College, near Lansing, Michigan, and near the center of the thickly-settled part of the State. (Results of Observations by Prof. R. C. Kedzie.)

YEARS.	Annu- al Aver- age.	AVERAGE TEMPERATURE, STATED IN DEGREES FAHRENHEIT, BY MONTHS.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
1871	47.93	24.75	25.65	88,18	50.18	61.39	68.21	70.60	71.19	58, 10	53.91	81.95	21.1
1872	45.54	21.59	21.34	24.75	47.39	58.48	71.82	74.91	7 L.22	62,03	47.44	29,80	15.7
1873	44.54	15,87	19.10	28.30	43.17	56.98	70.60	70.82	69,49	57,38	44.68	28.49	29.5
1874	47.32	27.70	25.51	32.30	36.87	59.58	70.61	72.02	69,39	62.85	49.10	35.00	26.9
1875	43.09	12.87	8.35	26.20	41.11	60.82	66.57	69.67	65.48	58.50	42.93	32.96	31.5
1876	48.17	30.22	27.33	30.55	44.16	57.95	68.14	72.48	71.55	56.30	43.74	86.83	15.2
1877	47.42	18.07	32.31	24.51	46.16	58.25	65.93	71.48	68.46	61.28	50,83	85,24	36.5
1879	48.29	29.11	28.07	40.90	50.55	54.57	64.08	73.04	70.15	63. 15	48.83	36.29	21,2
1879	46.88	19.19	20,40	33.19	44.84	58.76	66.02	74.03	70.00	56.21	57,28	38.22	27.4
1880	47.28	87. 10	29, 19	35,50	45.87	64.30	67.60	68.04	68,58	55.83	46.23	27,52	29.0
Av. for 10 Years	46.45	23.65	23,73	81.44	45.03	59.11	67.96	71.70	69.55	59.16	48.45	83, 18	24.7
1880b	49.25	87.10	81.60	(84.34	47.50	66.03	69.79	72.27	70.70	61.71	48,99	29.17	21.8

Average for 10 years ending with 1880.
 From observations at the office of the State Board of Health, Lansing, Michigan.

for the Years 18771878,1879, and 1880, and with 1880, at the Agneultural bolleges Scale = 9 % to the inch. Designed by Henry & Bakin

TABLE XXXI.—TEMPERATURE.—Exhibiting the Mean Temperature, the Highest and Lowest Temperature, the Monthly Range, the Mean Daily Range, the Mean Range from Day to Day, and the Greatest Rise or Fall of Thermometer in 24 hours and in 14 hours, for each Month of the Year 1880, at the office of the State Board of Health, Lansing, Michigan.

					7	CEMPE	RATU	RE.	FAHREN	HEIT	, 1880.			
YEAR AND MONTHS,	8 Dally Ob- -7 A. M. 2 P. M.	T	GIST ING IERM ETER	OM-		RAGE NGE.	IN	24 Ho	CHANGE URS,—2 2 P. M.	IN	14 Ho	CHANGE URS,—7 9 p. m.	REGIST THERMON GREA CHANGE HOU	TEST
1880.	Average of 3 servations,-	Highest.	Lowest.	Range.	Dally,—7 A. M. to 9 P. M.	From Day to Day, -2F. M. to 2 F. M.	of I	rees Rise Fall.	Day of Month.	of	rees Rise Fall.	Day of Month.	Degrees of Change.	Day of Month.
Year 1880	49.25	93	-18	111	12,50	15.28	F.	83	Feb. 29	R.	28	Sept. 23	55	Apr. 10
January	37.10	62	9	53	11,58	15.13	F.	29	28	F.	27	11	35	11
February .	31.60	64	3	61	11.86	16.21	F.	83	29	R.	25	26	35	8
March	84.84	60	8	52	13,55	15.29	F.	81	8	R.	25	80, 81	84	7
April	47.50	78	23	55	13.13	16.70	F.	27	10, 15	R.	23	9, 18	55	10
May	66.03	89	39	50	14.74	16.97	F.	26	13	R.	24	15	30	14
June	69.79	92	46	46	12.63	14.83	F.	23	1	R.	21	16	26	10
July	72,27	93	52	41	15, 10	16.42	F.	22	27	F.	21	18	26	15
August	70.70	93	49	44	13.84	16.81	R.	27	22	R.	27	22	29	21
September	61.71	90	34	56	14.53	17.17	R.	28	23	R.	28	28	81	j 6
October	48,99	SI	27	54	14.61	17.26	F.	81	16	R.	27	8	83	20
November	29.17	67	-3	70	9.87	12.53	R.	27	26	R.	27	26	80	26
December.	21.80	48	-18	66	6.58	8,06	F.	27	5	F.	27	5	88	5

EXHIBIT 11.—Absolute Humidity.—Grains of Vapor in a Cubic Foot of Air, by Months, for the Years 1871 to 1880, inclusive, at the Agricultural College, near Lansing, Michigan.

777 A 776	ANNU-			BRINS	OF VA	POR IN	CUBIC	FOOT	OF AT	R, BY I	donth	8.	
YEARS.	AVER- AGE.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
1871	8.56	1.63	1.58	2,28	8.00	4.53	5.77	6.85	6.43	4.41	8,48	1.89	1.8
1872	3.70	1.31	1.28	1.32	2,99	4.29	6.78	7.33	7.15	5.57	8.40	1.89	1.13
1878	3.38	1.14	1.43	1.52	2.71	4.00	5.85	6.45	6.29	4.50	2.92	1.78	1,8
1874	3,36	1.58	1.55	2,00	2.08	3.77	6.07	6.00	5.75	4.72	8. 15	2.06	1.5
1875	3.11	0,92	0.73	1.63	2.12	8.74	5.17	5.91	5.22	4.88	2.57	1.84	2,0
1876	3.40	1.88	1.57	1.78	2.26	8.93	5.95	6.76	6.31	4.43	2.56	2.26	1.0
1877	3.45	1.19	1.85	1.53	2,47	3.79	5.32	5.76	5,74	4.82	3,59	2.22	2.8
1878	3,69	1.82	1.91	2.80	8.51	3.68	5.05	6.83	6.06	5.18	8.89	2.44	1.6
1879	3.48	1.81	1,23	1.93	2.64	3.94	5.09	6.30	5.58	4.40	4.61	2.46	1.70
1880	3.71	2.22	1.92	1.97	3.02	5.02	6.03	6.20	6.32	4.98	3.81	1.93	1.5
Av. for 10 y'rs.	8,48	1.50	1.50	1.83	2.68	4.07	5.71	6.39	6.09	4.74	3.30	2 07	1.6
1880b	3.49	2,22	1.74	1.75	2.76	4.76	5,60	6,12	6.06	4,72	3.16	1.67	1.3

A Average for 10 years ending with 1880.
From observations at the office of the State Board of Health, Lansing, Michigan.

Diagram No. 7.

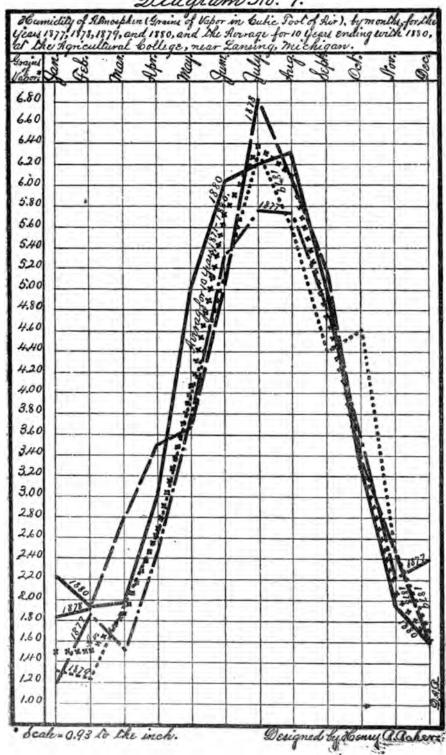


Diagram Sto. 8.

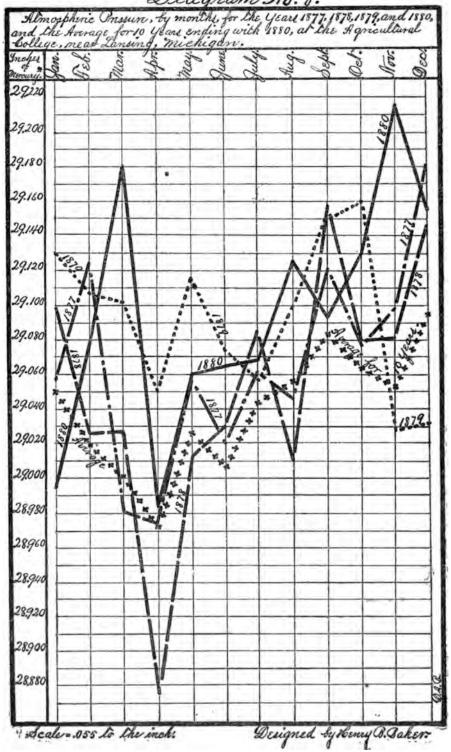


Exhibit 11 and Diagram No. 7, pages 258-9, afford an opportunity of studying the absolute humidity for the several years and the average for ten years.

EXHIBIT 12.—PRESSURE OF THE ATMOSPHERE.—Observations of Barometer reduced to freezing point, and corrected for instrumental error (+.12) previous to 1875, for each of the years 1871 to 1880, inclusive, and the Average for 10 years ending with 1880, at the Agricultural College, near Lansing, Michigan. (Based upon Observations made by Prof. R. C. Kedzie.)

ABB.	ANNU-	1	Pressus	E OF TE	E ATM	SPH ER	BY MC		CHES OF	MERCI	TRIAL C	OLUMN,	
YEA	AVER-	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec
871	28,938	29.028	28,936	28.930	28.842	29,024	28,985	29.011	29.027	29,158	23.029	29.084	29.0
873	29.007	28.958	28,962	29,031	28.972	28,988	28.999	29.044	29,087	29.010	29,099	29.001	29.1
878	28.994	28.993	28.967	28.972	28,918	28,946	28.960	29.034	<b>29.04</b> 7	29.048	29.037	28,953	29.0
874	29.055	29, 168	29.048	29.015	29.061	28,984	28,998	29.027	29.044	29.066	29.073	29.057	29.1
875	<b>28,99</b> 8	29,005	28,875	28,844	29.047	29.061	29.029	29.041	29.025	29.031	29.016	29.054	28.9
876	29.010	29,073	29.063	28.929	29,000	29,009	28.911	29.009	29.048	28.995	28.929	28,953	29.2
877	29.066	29.057	29,124	28.981	28,974	29.056	29,020	29,062	29.046	29.121	29.077	29.099	29.1
878	29,053	29,099	29.026	29.027	28,875	29.013	29.030	29.033	29,010	29,157	29.060	29.041	29.1
879	29.080	29,130	29.107	29,102	29.050	29.116	29,073	29,057	29,100	29, 152	29, 160	<b>2</b> 9.027	29.0
880	20,096	28,993	29.077	29.181	28,984	29.061	24.065	29,068	29.126	29,093	29, 130	29.215	29.1
LV4	29.035	29 030	29,019	29,001	28.972	29.026	29.007	20.044	29.056	29.083	20.063	29.052	29.0
880.	29.016	28,998	28.973	29,042	24.916	29.002	28.983	28,996	29.052	29,053	29.043	29.113	29.0

a Average for 10 years ending with 1880.

The last five lines in Exhibit 12 are represented in diagram No. 8. The line, showing the atmospheric pressure by months for the year 1880, reaches its highest points in the months of March and November, and the lowest in the month of April. The line for 1880 is much higher than the average for ten years at all points except the month of January.

33-1880.

From observations at the office of the State Board of Health, Lansing, Michigan.

TABLE XXX.—Exhibiting, for the Year, for each Month, and an Average Month, during the Year 1880, the Mean Height and Range of Barometer, the Direction of the Prevailing Winds, the Relative Humidity, the Per Cent. of Cloudiness; the Number of Days on which it Rained or Snowed, and the Depth of Rain and Melled Snow, in Inches, at the Office of the State Board of Health, Lansing, Michigan.

YEAR	ced to 32 erage.	ter.		DAY	rs or	PRE	VAILI	NG V	VINDS,	1880.	_	Humidity, or Per Saturation,-Av.	diness of	ays on which Snowed.	Snow, in	RELA	TIVE.
MONTHS, 1880.	Barometer, Reduced to Fabrenheit, -Average.	Range of Barometer.	Calm.	North.	North-east.	East.	Southeast	South.	South-west.	West.	North-west.	Relative Humidil Cent. of Saturati	Per Cent. of Cloudiness of Sky,-Average.	Number of Days it Rained or Sno	Rain and Melted Inches.	Day,-7 A. M. to 2 P. M.	Night, -9 r. M.
Year, 1880.	29.016	1.514	86	37	107	38	135	93	287	273	92	68	54	151	49.54	3.70	4.14
January	28,998	1.174	0	2	6	4	22	15	21	14	9	75	63	11	2.67	2,90	3.16
February.	28.973	1,253	0	4	3	0	13	9	25	21	12	58	59	11	1.85	4.38	4.97
March	29,042	1.422	0	6	10	4	22	6	9	26	10	63	56	10	2.00	3.42	3.81
April	28.916	.954	0	2	11	2	10	2	26	20	17	59	51	13	7.06	4.28	4.93
May	29,002	.922	1	0	11	6	2	9	33	22	9	60	44	12	6,81	3.81	4.32
June	28.983	.916	8	0	7	2	10	4	26	32	1	67	49	14	6.96	3.53	3.87
July	28,996	.549	2	3	12	3	7	6	21	33	6	69	42	16	6.00	3.39	3,61
August	29,052	.644	10	4	24	8	9	3	26	7	2	72	47	13	6.02	2.90	2,87
September	29,058	.643	6	4	5	1	s	15	19	27	5	69	47	10	4.13	3.73	3.60
October	29.043	1.022	3	4	5	2	12	15	24	14	14	69	50	12	2,81	3.19	3.71
November	29.113	1.014	2	0	4	2	16	5	32	26	3	72	64	15	2,38	4,33	5.60
December	29.011	1.370	4	8	9	4	4	4	25	31	4	78	80	14	.66	4.55	5.26
Monthly Av.	29,016	,990	3.00	3.08	8,92	3.17	11.25	7.75	23,92	22,75	7.67	68	54	12.58	4.12	3.70	4.14

TABLE XXXII.—Some Meteorological conditions at Certain Localities in Michigan, by Months, during the Year 1880.

	•	ALPEKA, MICH	Mics.			Ветвоіт, Місв	, MICE.		Q B	Овано Начви, Місн.	EX, Mici		K	Marquette, Mice	E, MICE.	
NONTHS, 1880.	Average Barome- ter.	Average Temper- ature,— Fahr.	Total Rain- fall, in Inches	Prevail. ing Winds.	Average Barome- ter.	Avorage Temper- ature,— Fahr.	Total Rain- fall, in Inches.	Prevail- ing Winds.	Average Barome- ter.	Average Temper- ature,— Fahr.	Total Rain- fall, in Inches.	Prevail. ing Winds.	Average Barome- ter.	Average Temper- ature,— Fahr.	Total Rain- fall, in Inches.	Prevall- ing Winds.
YEAR, 1380	29.336	42.73	43.64	W.	99.350	48.70	47.85	S. W.	29.346	47.73	44.66	₩.	29.945	41.98	33.50	N. W.
January	29.836	29.20	184	N. W.	29.343	87.00	2.81	8. W.	29.330	87.30	2.64	ø,	29.213	28.50	2.94	N. W.
February	29.297	22.60	1.85	W.	29.311	32.30	1.49	8. W.	29.312	25.20	2,06	₩.	20.303	21.50	1.07	N. W.
March	29.435	25.30	2.31	₩.	29.385	83.23	2.74	S. W.	29.386	34.30	36.	W.	29.33	38 40	1.00	N. W.
April	29.241	38.30	3.44	₩.	28.28	46.07	6.15	8. W.	29.52	67.30	6.49	8. W.	29.130	88.60	2.62	N. W.
May	20.304	55.50	7.38	છ ઇ	29.323	61.30	98.4	S. W.	928.326	61.30	4.19	ø;	203.503	57.20	4.83	N. W.
Jane	29.281	62.40	8.49	si Ei	29.209	60.10	4.48	₩.	29.208	67.00	3.65	ø,	29.196	62.00	5.53	N. W.
July	29.311	65.70	6.14	₩.	29.806	70.80	6.71	s. w.	29.309	06.89	4.47	8. W.	29, 253	8.30	3.83	N. W.
August	29.393	65.10	1.61	×. ¥.	20.363	60.30	5.53	8. W.	29.378	68.70	8.03	N. E.	29.314	62.30	3.77	N.A.W
September	29.344	67.60	3.31	¥.	29.363	61.60	4.30	8.₩.	29.368	60.90	3.74	8. W.	23.230	55.90	8:	₩.
October	29.351	45.00	1,95	N. W.	20.874	48.40	5.45	s. w.	29.370	49.20	3.15	8. E.	20.237	44.00	2.33	œ.
November	20.427	26.80	2.49	.₩	20.473	80.15	3.20	S. W.	29.450	82.80	201	W.	29.308	21.70	1.49	₩.
December	29.315	19.30	38:	Ä.	29.371	22, 20	1.23	8. W.	20.372	24.30	28.	8. W.A.W	29.256	19.30	1.27	₩.
Average Month	29.336	42.73	3.64		29.350	48.70	8.		29.346	47.73	8.73		29.245	41.98	2.79	

Table XXXII. is made from data in the Office of the State Board of Health.

EXHIBIT 13.—All Causes.—Deaths Returned as having occurred in Michigan from All Causes during the Fears 1870-1880. Per Cast of Deaths to the Estimated Pomilations in each Year and some coincident Meleocological condi-

ES OF	 	.элизеот Рисавите.	28.874	28.867	29.105	28.035	28.979	878.82	29,080	20.010	29.068	29.003	29,063	
PRESSURE OF ATMOS- PHERE, INCHES OF MERCURY, (REDUCED TO 32° F.)	M OF	Average, Daily.	151.	.133	.137	.130	021.	:	.125	.138	8	908.	311.	
PRESSI PHERI REDU	RANGE OF BAROMETER.	.lanunA	1.307	1.909	1.648	300:	1.997	1.366	1.289	1.860	1.530	1.628	1.276	
inches.	f al ,wor	Rein and Melted Sa	81.745	26.853	43.890	93.839	31.418	37,757	28.730	30.653	87.420	28.487	31.990	
, Miles per Tedesión	Ing And	Атетаge Velocity o hour,—by Register		-	9.4	1			9.7	-	-	1	5.1	
-RELA. E. M = 10.	ж.х	Уіght,—9 г. н. го 7	4.63	4.24	3.63	3.99	5.55		3,36	4.11	3.33	2.04	3.42	
Ozone,—Rela. Tive. Maxinum = 10.	.ж.	Day,—7 A. M. to 2 P.	4.02	8 8 8 8	8	4.10	3.05		3.24	89.8	8.66	3	3.50	
Y OF E, KTC.— VERAG'S.	-BV 10 d.7lA 10	Weight, in Grains, por in Cubic Foot	3.36	3.70	3.71	3,36	50.	3.90	3,43	3.40	3.45	3.11	3.69	
ПСМІВІТУ ОР АТМОВРНЕВВ, ЯТС.— МОНТИLY АУЕВАВ'S.		Relative Humidity Per Cent. of Satur	8	83	75	20	62	81	92	81	2	79	٤	
		Average.	44.54	45.54	47.28	4 47.05	46.66	49.10	46.88	4 46.17	47.42	4 43.09	48.23	
TEMPERATURE,—FAHR.; MEAN OF 8 DAILT OBSERVATIONS,—7 a. M., 2 P. M., AND 9 P. M.	AG#.	From Day to Day, 2 F. M. to 2 P. M.	17.67	18.14	16.30	18.27	17.63	19.03	17.24	16.33	17.53	17.55	16.05	
TEMPER MEAN OBSERVA	AVERAGE RANGE.	Delly.	11.37	15.31	13.54	15.65	19:01	17.11	14.87	13.60	15.12	15 34	13.63	
THS RTED.	o stite;	Per Cent. of Deal	1.08	1.08	86.	8	8;	18:	.91	.87	.87	8.	8.	
DEATHS REPORTED.		Number.	14,258	13,371	16, 102	12,500	12,853	10,763	14,407	12,578	12,919	11,920	12,766	
	*.elfa	Estimated Inhabit	1,305,098	1,263,514	1,636,937	1,345,047	1,399,705	1,181,282	1,584,956	1,433,235	1,485,567	1,392,411	1,534,457	
YEARS 1870-1880 IN ORDER BY	PER CENT. OF REPORTED DEATHS FROM ALL CAUSES TO	ESTIMATED IMHABITANTS, YEAR OF GREATEST DEATH- RATE FIRST.	1873.	1872		1874.		1870.	1879	1876.		1875	1878	
Y 84	P. Deat	ES	.91	sn-di	E Deep	.vA	Лувгаве				- <u>F</u>	Dos		•

- Population estimated from Censuses of 1870 and 1890. • See foot-notes to Exhibit K, page 366. • From observations at the office of the State Board of Health. • Exceptions to the proposition that the temperature was less than the average in years in which the death-rate was greater than the average, and vice versa.

EXHIBIT 14.—All Causes.—Dealhs Returned as having occurred in Michigan from All Causes, by Months, during the Year 1880, and some coincident Meteorological conditions at the Office of the State Board of Health, at Lansing.

MONTES IN ORDER BY	DEATHS		REPORTED FROM ALL CAUSER, 1880.	ED F1	пож л	LL CA	UBER,		TEMPERATURE, I GREES,-FAHR.	FAHE.	KT	HUNIDITY ATNOSPHER, CMONTHLY AVERAGES.	OZONK,—RBIA TIVE. MAKIMUM=10.	-RHLA-	pa Hegia-	nt ,wond	PRES. PRES. (Red	PRESSURE OF ATMOS- PHERE,—INCHES OF MERCURY. (Reduced to 32° F.)	ATMOS. ES OF
NUMBER OF REPORTED		NUMBER.	KB.		PRR	PER CENT. OF TOTAL.	0F TO	1	Might Salts	Thaffy at	Cent.	·no t	2 01 .	оз .ж	-, tuoh	clted i	RAN	RANGE OF BAROMETER.	.91Dee
ALL CAUSES, GREATEST FIRST.	.faloT	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Av. Dally I during Day following I by Regist Therm'ters served at 7	Average of Observation 7 A. M., 2 3	Relative Hu ty, or Per to Saturati	Weight,ing of Vapor in to too Foot	и.л.Т-,үлс .и.ч	Kight,—9 p.	Average Ver Miles per J	K bas alsH	Monthly, and Year.	Average, Dally.	o1¶ 98#197A
YEAR, 1880b	16,069	8,617	7,396	3	100.00	100.00	100.00	00.00	18.61	1 49.25	89	8,19	3.70	4.14	9.4	49.54	1.514	.215	20.016
August	1,78	939	8	1-	1.8	10.90	11.28	14.89	20.60	5 70.70	22	6.06	2.90	2,87	5.9	r 6.02	118.	1 25	29.02
Sept	1,676	802	764	9	10.41	10.53	10.53	10.61	21.17	7 61.71	60	4.72	8 3,73	3,60	8,1	C 4.13	.643	8	29.068
Dec	1,617	33	758	7	10.01	8.8	10.25	14.80	c 10.74	d 21.80	25	1,30	e 4.55	5.26	7.4	8	1.870	:502	£ 29.011
'uly	1,527	838	888	8	9.51	9.70	8.30	6.38	20,81	79.97	3	6.19	3.39	3,61	6.5	8.8	.549	305	g 28.996
Nov	1,486	822	88	89	9.32	9.31	8.94	6.38	e 15.33	4 29,17	72	1.67	• 4.33	5.60	8.6	9.38	1.014	2	29.013
October	1,471	382	671	10	9.16	83.	9.07	10.64	20.16	8 4 48.99	8	3.16	8,19	8.71	7.8	73.2	1.022	.215	29.043
Average	1,342	25	618	•	8.88	38	8.36	8.51	18.61	49.25	8	3.49	3.70	4.14	9.4	4.12	986	.215	29.016
April	1,280	653	8	•	8.8	7.93	8.13	10.64	c 20,63	8 47.50	23	2.76	4.28	4.93	13.8	7.08	\$	292	28,916
May	1,116	619	543	64	7.26	7.18	7.87	4.26	e 20.65	6 d 66.03	8	4.76	3.81	4.32	10.4	6.81	.922	.157	29.003
March	1,149	00	545	-	7.15	7.01	7.87	-	e 19,45	34,34	8	1.75	. 3.49	3,81	12.8	6 200	1.422	\$18.	g 29.042
June	1,036	553	478	•	6.45	6.42	6.48	8.51	18.43	8 d 69.79	67	6.60	e 3.53	3.87	8.3	6.98	916	.136	28,983
Feb	1,002	23	442	+	6.24	6.45	6.98	8.51	18.17	31,60	23	1.74	4.38	4.97	12.7	r 1.83	1.253	.316	28.973
Jan	8	451	404	61	5.36	8.	5.50	4.26	17.10	37.10	22	9.00	0 5.90	3.16	11.0	1 2.67	1.174	.322	28.908

a See foot-notes to Exhibit K, page 266. b Excluding Deaths in unknown month. c Exceptions to the proposition that the Daily Range of Temperthat the Agreage Daily Temperates a months when more than the average number of deaths occurred, and vice was a Kzceptions to the proposition
that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice verac. f Exceptions to the proposition that the Cozne was less than the average in months when more than the average number of deaths occurred, and vice verac.
Exceptions to the proposition that the Ozne was less than the average in months when more than the average number of deaths occurred, and vice verac.
Exceptions to the proposition that the Ozne was less than the average in months when more than the average number of deaths occurred, and vice verac.
Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer, was greater; than the average in months when more than the average in months when more than the average in months when more than the

EXHIBIT K .- Croup. - Deaths Returned as having occurred in Michigan from Croup, by Months, during the Year 1880, and some coincident Meteorological conditions.

	Maumus	CR	ROM SOUP, 880.	TUI	PERA- E,— EES F.		RE, ETC	of An		Ozo: Rela Maxii	TIVE.	per Hour,—		(Barometer
DI	MONTHS N ORDER BY NUMBER OF BATHS FROM CROUP, GREATEST FIRST.	Number.	Per Cent. of Total.	Average Dally Range during Day and following Night by Register- ing Therm'r. Observed at 7A. M.	Average of Dally Observations, at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent.	Weight, in Grains, of Vapor in Cu-	Weight, in Troy Ounces, of Vapor inhaled by one person in 24 hours.b	Weight, in Troy Ounces, of Vapor exhaled from Air passages in 24 hours, in excess of vapor inhaled.	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Miles per by Registering Anemometer.	Rain-fall, in Inches.	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fahrenheit.)
Yea	r, 1880	d322	100.00	18.61	49.25	68	3.49	2.18	9,50	3.70	4.14	9.4	49.54	29.01
	November	48	14.91	15.33	29.17	72	1.67	1.04	10,64	4 33	5.60	8.6	2,38	29.11
More than the Av. No. of Deaths.	December	45	13,98	10.74	21.80	78	1.30	0.81	10,87	4.55	5.26	7.4	.66	29.01
ag.	October	37	11.49	e 20.16	48.99	69	3.16	1.98	9.70	3.19	8.71	7.8	2.84	29,04
5 0 5 0	January	34	10.56	17, 10	37.10	75	2,22	1.39	10,29	2 90	8. 16	11.0	2.67	28,998
S Z	February	30	9,32	18.17	31.60	58	1.74	1,09	10.59	4.38	4.97	12.7	1.85	28.973
Ave	rage	27	8,39	18.61	49.25	68	3,49	2.18	9,50	3.70	4.14	9.4	4.12	29.016
2	September	22	6 83	21.17	61.71	69	4,72	2.95	8,73	3,73	3,60	8.1	4. 13	29.068
. e	March	21	6.52	19.45	• 34,34	63	1.75	r 1.09	10,59	3.42	8.81	12.8	2.00	29.049
the Average Deaths.	April	20	6.21	20.63	e 47.50	59	2.76	f 1,73	9,95	4,28	4.93	13.8	7.06	28.916
	June	19	5,90	• 18.43	69.79	67	5.60	3.50	8.18	3.53	3.87	8.3	6.96	28,985
than the Ave. No. of Deaths.	July	16	4.97	20.81	72.27	69	6.12	3.83	7.85	3,39	3.61	6.5	8.00	28,996
Less than No. of	May	15	4.66	20.65	66.03	60	4.76	2.98	8.70	3.51	4.32	10.4	6.81	29.009
្ន	l August	15	4.66	20.65	70 70	72	6,06	3.79	7.89	2.90	2 87	5.9	6.02	29.059

Croup.—The number of deaths in 1880 from this disease (322), is in excess of that registered in any previous year, and is two per cent. of the deaths from all causes. The average annual mortality from croup, according to the returns, for the ten years 1871-1880 is 197, and the order of the years, those having the greatest number first, is: 1880, 322; 1879, 278; 1878, 236; 1876, 178; 1873, 172; 1875, 167; 1877, 164; 1872, 162; 1871, 153; 1874, 140. For 1880, more than the average number of deaths occurred in the months of

a Calculated from readings of Dry Bulb and Wet Bulb Thermometers.
b Calculated for 18 respirations per minute, of 20 cubic inches of air each.
c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.68 Troy ounces of vapor exhaled daily. No correction made for expansion of air after being inhaled.
4 Includes 65 deaths from Membranous Croup, and 1 from Spasmodic Croup.
Exceptions to the proposition that more than an average number of deaths from croup occurred in months when the temperature was less than the average, and vice versa.
Exceptions to the proposition that more than an average number of deaths from croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

November, December, October, January, and February; 60.25 per cent. of the deaths from croup being assigned to those months. As may be seen in Exhibit K, there are only two exceptions to the proposition that more than an average number of deaths from croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

EXHIBIT L.—CROUP AND DIPHTHERIA.—Deaths Returned as having occurred in Michigan from Croup and Diphtheria, by Months, during the year 1880, and some coincident Meteorological conditions.

	ONTHS IN	DIPH	HS FROM IP AND IBEEIA, 880.	TEMPER DEGR: FAX	EES,-		PHER	E, ETC		Ozon RELA MAX	TIVE.	Miles per nometer.	Atmosphere. to 32° Fahr.)
BER FR	ER BY NUM- OF DEATHS OM CROUP DIPHTHERIA, REATEST FIRST.	Number.	Per Cent. of Total.	Average Daily Range dur- ring Day and following Night by Reg. Therm'tra. Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per- Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours, a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled.	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Miles per Hourby Registering Anemometer.	Average Pressure of Atm (Barometer Reduced to 32
Year,	1880	ь 1,859	100,00	18.61	49, 25	68	3.49	2.18	9.50	3,70	4.14	9.4	29.016
o.	[ Nov	246	18,23	15.33	29.17	72	1.67	1.04	10,64	4.83	5.60	8,6	29.113
ge N	Dec	245	13.18	10.74	21,80	78	1.30	0.81	10.87	4.55	5.26	7.4	29.011
Average No. of Deaths.	Oct	223	12.00	e 20,16	48,99	69	3,16	1.98	9.70	3.19	3.71	7.8	29,043
AV	Sept	183	9.54	c 21,17	461.71	69	4,72	e 2.95	8.73	3.73	3.60	8.1	29,058
Avera	ge	155	8.34	18.61	49,25	68	3.49	2.18	9.50	3.70	4.14	9.4	29,016
	( Aug	149	5.02	20.65	70.70	72	6,06	3.79	7.89	2.90	2.87	5,9	29,052
No	April	136	7.32	20.63	4 47.50	59	2.76	• 1.73	9.95	4.28	4.93	13.8	28,916
138	Jan	133	7.15	• 17.10	4 37.10	75	2,22	• 1.39	10.29	2.90	3.16	11.0	28,998
ths	July	133	7.15	20.81	72.27	69	6 12	3,83	7.85	3,39	3 61	6.5	28,996
of Deaths.	March	120	6.46	19.45	d 34.34	63	1.75	• 1.09	10.59	3,42	3.81	12,8	29.042
of	Feb	104	5.59	e 18,17	d 31.60	58	1.74	e 1.09	10.59	4.38	4.97	12.7	28,973
Less than the Average No. of Deaths.	June	101	5.43	e 18.43	69,79	67	5.60	3,50	8.18	3.53	8.87	8.3	28,953
1	May	86	4.63	20.63	66.03	60	4.76	2.98	8.70	3.81	4.32	10.4	29.002

Croup and Diphtheria.—The deaths from croup and diphtheria in connection with meteorological conditions at the office of the State Board of Health, for the year 1880, may be studied in Exhibit L. The propriety of combining

a See foot-notes to Exhibit K, page 256.

b Excluding 5 in unknown Month.

e Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months when the Average Daily Range of Temperature was less than the average, and wice verse.

4 Exceptions to the proposition that more than an average number of deaths from Croup and Diphtheria occurred in months when the Average Daily Temperature was lower than the average, and wice verse.

and vice versa.

• Exceptions to the proposition that more than than the average number of deaths from Croup and Diphtheria occurred in months when less than the average quantity of vapor was inhaled, and

the statistics of the mortality from these two diseases has been shown in previous reports. One reason, among others, is the fact of their resemblance, and on this account many cases of death from one disease are erroneously reported as deaths from the other. The same propositions are made in this Exhibit as in Exhibit K, and it will be seen that there are five exceptions to the proposition that more than the average number of deaths from croup and diphtheria occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

EXHIBIT M.—DIPHTHERIA.—Deaths Returned as having occurred in Michigan from Diphtheria, by Months, during the Year 1880, and some coincident Meteorological conditions.

	Months	DEA FRO DIPHTI 188	OM HERIA.	TEMPER DEGREE FAI	EES,-		TMOSPI	HERE, E	TC.,-	OZON RELAT MAXI =1	TIVE.	Miles per nometer.	Pah.
DE. DI	ORDER BY UMBER OF ATHS FROM PHTHERIA, REATEST FIRST.	Number.	Per Cent. of Total.	Average Daily Range during Day and following Night by Reg. Thermometers. Observed at 7 A. M.	Average of Daily Observa- tions at 7 A. M., Z. P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Afr. a	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours.	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled.	Дау, —7 А. М. to 2 Р. М.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Miles per Hour,—by Registering Anemometer.	Average Pressure of Atmosphere, (Barometer Reduced to 32° Fahrenheit.)
Year	, 1880	ь 1,537	100.00	18.61	49.25	68	3.49	2.18	9,50	3.70	4.14	9.4	29.016
	December	200	13.01	10.74	21.80	78	1.30	.81	10,87	4.55	5.26	7.4	29.011
the.	November	198	12,88	15,33	29.17	72	1.67	1.04	10,64	4.33	5.60	8,6	29,113
No. of Deaths.	October	186	12.10	e 20.16	48.99	69	3.16	1.98	9.70	3.19	3.71	7.8	29.043
0.01	September.	161	10.47	e 21.17	d 61.71	69	4.72	e 2.95	8.78	3.73	3.60	8.1	29,058
NO	August	134	8.72	c 20.65	4 70.70	72	6,06	e 3.79	7.89	2.90	2.87	5.9	29,052
Ave	rage	129	8.39	18.61	49.25	68	3.49	2.18	9.50	3.70	4,14	9.4	29,016
	July	117	7.61	20,81	72.27	69	6.12	3.83	7.85	3,39	3.61	6.5	28,996
Average beaths.	April	116	7.55	20.63	d 47.50	59	2.76	• 1.73	9,95	4.28	4.93	13,8	28.916
	January	99	6,44	c 17.10	d 37.10	75	2.22	e 1.39	10.29	2.90	3.16	11.0	28.598
å.	March	99	6.44	19.45	4 34,34	63	1.75	• 1.09	10.59	3.42	3,81	12.8	29.042
Less than the Avera	June	82	5.34	0 18.43	69.79	67	5.60	3,50	8.18	3.53	3.87	8.3	28.983
Nun	February	74	4.81	e 18.17	d 31.60	58	1.74	e 1.09	10.59	4.38	4.97	12.7	28,973
1	May	71	4.62	20.65	66.03	60	4.76	2.98	8.70	3.81	4,32	10.4	29,002

Diphtheria.—According to the returns, the deaths from this cause numbered 1,542 in 1880. This mortality is the largest that has ever been recorded in

a See foot notes to Exhibit K, page 266.
b Excluding 5 in unknown month.
c Exceptions to the proposition that more than an average number of deaths from Diphtheria occurred in months when the average daily range of temperature was less than the average, and

vice versa.

4 Exceptions to the proposition that more than an average number of Deaths from Diphtheria occurred in months when the Average Daily Temperature was Lower than the average, and vice versa.

• Exceptions to the proposition that more than an average number of deaths from Diphtheria occurred in months when less than the average quantity of vapor was inhaled, and vice versa.

this State, and the disease has manifested its influence during the last few years in a remarkable manner, alike in its extent, duration, and fatal effects. The prevalence of the disease in the various counties for the years 1876–1880 is as follows: in 1876, it was reported from 38 counties; in 1877, from 46 counties; in 1878, from 52 counties; in 1879, from 61 counties; and in 1880, from 62 counties, or from 24 counties more than in 1876.

The weekly reports of sickness made to the State Board of Health, in 1877-1880, by health officers of cities and regular correspondents of the Board, also indicate a considerable increase of sickness from diphtheria during those years. The following tabular exhibit, states for each of the years 1877-1880 what per cent. of observers reported diphtheria; for what proportion of the time, covered by each observer's reports, on the average, the disease was reported; on what per cent. of all reports received for the year the disease was reported. The per cent. of observers reporting diphtheria increased from 32 in 1877 to 43 in 1880; and the per cent. of reports on which it was reported, increased from 19 in 1877 to 29 in 1879 and 27 in 1880.

The deaths from diphtheria in 1880 comprised 9.58 per cent. of the deaths from all causes; although this per cent. is not as large as that for 1879, which was 10.22, still, there were 69 more deaths returned from this disease in 1880 than in 1879. The order of the years 1869–1880, those being placed first in order which have the greatest per cent. of deaths from diphtheria, is: 1879, 10.22; 1880, 9.58; 1878, 6.95; 1877, 4.59; 1876, 2.47; 1875, 1.73; 1874, 1.70; 1873, 1.52; 1872, 1.44; 1871, 1.24; 1870, 1.12; 1869, 0.97. From 1870 to 1873, the number of deaths reported from diphtheria increased with each year; from 1873 to 1875 the number reported decreased by 4 in 1874 and by 6 in 1875; but from 1875 to 1880, the number reported increased again largely with each successive year.

As may be seen by Exhibit M, diphtheria, as usual, prevailed most extensively during the fall and December, 57.12 per cent. having died during the five months of August, September, October, November, and December. The least number of deaths was in May, from which month the rise was quite rapid to December, which had the largest number of deaths. The deaths from Diphtheria of those under five years of age were 43 per cent. of the total number of deaths from this disease, and for ages from 5 to 10 they constituted 35 per cent.; 78.14 per cent. of the deaths were of children under 10 years of age, and 93.59 per cent. were of persons under 15 years of age. The decrease in the death-rate from diphtheria among persons over 15 years of age, as compared with the death-rate among those under that age, is very marked.

The same propositions are made for diphtheria that are made for croup, and the proposition that more than an average proportion of deaths occurred in months in which less than an average quantity of vapor was inhaled, and vice versa, holds true in only six of the twelve months, while in croup the same proposition holds true in ten of the twelve months. This indicates that in 1880, croup sustained a closer relation to the amount of vapor inhaled than did diphtheria.

It is hoped that the epidemic of diphtheria has reached its highest point, and that henceforth the deaths from that cause will decrease steadily. In fact, it is already known that the circulars and documents sent out by the State Board of Health have had a great influence in the restriction, and prevention of this destructive disease.

Diphtheria.—From Weekly Reports of Diseases to the State Board of Health for each of the Years 1877-1880.

YEARS.	Per Cent. of Observers Reporting Presence of.	Av. Per Cent. of Weeks Re- ported Pres- ent where Present.	Per Cent. of Reports Stat- ing Presence of.
1877	33	59	19
1878	37	62	23
1879	45	63	29
1880	43	63	27
		l1	

### Deaths from Diphtheria, by Counties, for each of the Years 1876-1880.

STATE AND COUNTIES.	1880.	1879.	1878.	1877.	1876.
STATE	1,542	1,473	887	593	311
Alcona	8	8	8		
Allegan	11	20	29	1	4
Alpena					<b></b>
Antrim	3	ກ	10	10	
Baraga					
Barry	12	8	17	19	15
Bay	40	41	16	12	13
Benzie	2	4	<b></b>		
Berrien	31	70	27	6	5
Branch	10	83	16	21	25
Calhoun	8	40	10	36	15
Case	9	47	47	4	6
Charlevoix		1	••••	1	
Cheboygan	3	1	20	8	
Chippewa	2				
Clare	42	2			
Olinton	19	15	52	2	5
Crawford		1			
Delta	6	·		1	1
Eaton	18	30	47	12	23
Emmet	1	3			
Genesee	38	17	17	99	3
Gladwin		7			
Grand Traverse	6	2	6	25	3
Gratiot	81	31	18	21	1

### CAUSES OF DEATH,-DIPHTHERIA.

# Deaths from Diphtheria.—Continued.

COUNTIES. 1880. 1879.	1878.	1877.	1876.
ie	19	10	12
on	1		
7 8	10	4	
	9	2	3
	14	9	9
	2	1	
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## VITAL STATISTICS OF MICHIGAN, 1880.

# Deaths from Diphtheria.—Continued.

COUNTIES.	1880.	1879.	1878.	1877.	1876.
Ottawa	15	44	8	6	
Presque Isle					
Roscommon	2	2.			
Saginaw	148	157	52	19	13
Sanilac	8	10	12	17	
Schoolcraft					
Shiawassee	13	8	11	1	1
St. Clair	43	7	22	13	15
St. Joseph	13	28	13	5	5
Tuscola	41	46	5	5	4
Van Buren	4	11	7	4	9
Washtenaw	9	10	4	1	2
Wayne	137	128	67	55	58
Wexford	21	6	20		<b> </b> -
No. of Counties	62	61	52	46	38

Corebro-spinal Meningitis.—Only five deaths were returned from this discase in 1880, being the smallest number reported for any year since 1871. In 1879, the number was 10; in 1878, 8; in 1877, 9; in 1876, 14; in 1875, 36; in 1874, 33; and in 1873, 145. Of the decedents from this disease in 1880, 4 died aged under 5, and one between the ages of 5 and 10. The months in which the deaths occurred were March, May, June, August, and November.

EXHIBIT V.—Cerebro-spinal Meningitis, Etc.—The Total Number of Deaths Returned as having occurred from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, in Michigan during the Year 1880, by Months, and by Sex.

CAUSES	_	1880.					M	онтн	s, 188	30.				
OF DEATH.	SEX.	YEAR,	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	Total	157	4	12	12	12	9	12	24	24	13	10	8	17
Total	Males	88	1	10	5	8	5	5	14	14	9	4	6	7
	Fema's	69	3	2	7	4	4	7	10	10	4	6	2	10
Cerebro-	Total	5			1	<b></b>	1	1		1			1	<del>.</del>
spinal Meningitis	Males	2					<b> </b> -			1		•	1	
Weningieis	Fema's	3		<b></b> -	1	<b> </b> -	1	1	·- ·	<b> </b>				
Spotted	Total	1				<b> </b> -				1				<b> </b>
Fever	Males_	1	ļ							1				
	Fema's									ļ. <b>.</b>			<b> </b> -	
	[Total	58	1	4	5	6	2	4	8	10	2	4.	8	9
Spinal Meningitis	Males	88		4	2	5	2	2	6	6	2	2	3	4
	Fema's	20	1	•••••	3	1		2	2	4		2	ļ	5
	Total	22	1	2	1	1	2	1	5	2	1	2	1	3
Meningitis	Males	12	1	1	1		1		3	1	1	1	1	1
	(Fema's	10		1		1	1	1	2	1		1		2
Spinal Fe-	Total	71	2	6	5	5	4	6	11	10	10	4	8	5
ver	Males_	35		5	2	3	2	3	5	5	6	1	1	2
	Fema's	36	2	1	3	2	2	3	6	5	4	3	2	3

Exhibits V. and 15 combine the numbers of deaths from certain diseases, and Exhibit 15 shows the relation between this group of causes of deaths and certain meteorological conditions. To each of the propositions concerning the average daily temperature, and the absolute humidity there are only three exceptions.

EXHIBIT 15.—CEREBRO-SPINAL MENINGITIS, ETC.—Deaths Returned as having occurred in Michigan from Cerebro-spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, by Months, during the Year 1880, and some coincident Meteorological conditions.

BY NUM.	MENINGITIS, ER, SPINAL, MENINGITIS, FER, GREAT-	Deaths Cere Spinal ingitis	Men-	Temper Degre Fab	es,-	Atmos Etc Mon		Rela Maxi	ne,— ative. mum 10.	ind, Miles	in Inches.	pher	Mercui	Atmos- ches of ry. 32° F.)
ORDER BY ATHS, FROM	FEVER, S, MEN		1	y Range and fol- t by Reg. at 7 A. M.	y Ob-	ty, or	Foot	2 P. M.	7 4.36.	Registe	Snow,	Rang		
MONTHS IN ORDER BY BER OF DEATHS, FROM	SPOTTED FE MENINGITIS, AND SPINAL FEET FIRST.	Number.	Per Cent. of Total.	Average Dally Range during Day and fol- lowing Night by Reg. Ther. Obs. at 7 A. M.	Average of Dally servations at 7 A. 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Satura- tion.	Weight, in Grains, of Vapor in Cubic Foot of Air. a	Day,-7 A. M. to 2	Night,-9 r. M. to 7 A.M.	Average Velocity of Wind, per Hour,—by Registering mometer.	Rain and Melted Snow, in Inches.	Monthly, and Year,	Average, Daffy.	Average Pressure.
Year	r, 1880	157	100.00	18.61	49,25	68	3.49	3.70	4.14	9.4	49.54	1.514	.215	29,010
. F.	July	24	15,29	20.81	72.27	4 69	6.12	3,39	3,61	6.5	6,00	.549	.105	28,996
an A	Aug	24	15.29	20.65	70.70	4 72	6.06	2,90	2.87	5.9	6.02	.644	,121	g 29.059
No. of Deaths.	Dec	17	10.83	ь 10.74	c 21.80	d_78	e 1,30	1 4.55	f 5.26	7.4	.66	1.370	.252	29.011
No.	Sept	13	8.28	21.17	61.71	4 (13	4.72	1 3.73	3.60	8.1	4.13	.643	.129	g 29.058
Ave	rage	13	8.28	18.61	49.25	68	3,49	8.70	4.14	9.4	4.12	.990	.215	29.016
	Feb	12	7.64	18.17	31.60	d 58	1.74	4,38	4.97	12.7	1.85	1.253	.316	g 28,973
No.	March.	12	7.64	b 19.45	34,34	d 63	1.75	f 3.42	f 3.81	12.8	2,00	1.422	.314	29,042
7	April	12	7.64	ь 20.63	47,50	d 59	2.76	4.28	4.93	13.8	7.06	.954	.282	g 28.916
athe	June	12	7.64	18,43	€ 69.79	4 67	e 5.60	f 3,53	f 3.87	8.3	6.96	.916	. 136	g 28,983
Less than the Av. of Deaths.	Oct	10	6.37	ь 20.16	48,99	69	3.16	1 3.19	t 3.71	7.8	2.84	1.022	.215	29,043
o o	May	9	5.73	ь 20.65	c 66.03	d 60	e 4.76	3.81	4.32	10.4	6.81	,922	.157	g 29.002
Les	Nov	8	5,10	15.33	29.17	72	1.67	4.33	5.60	8.6	2,38	1.014	.234	29.113
	Jan	4	2,55	17.10	37,10	75	2.22	f 2.90	f 3.16	11.0	2.67	1.174	.322	g 28,998

Congestive Chills and Intermittent Fever.—The number of deaths returned from Congestive Chills in 1880 is 68, an increase of 4 over the number reported in 1879 and in 1878. The average annual number of deaths from this disease for the ten years 1871-1880 is 80. In 1880 the largest number of deaths occurred in September, and the smallest in November. The relation between Congestive Chills and certain meteorological conditions is shown in Exhibit U, where it is seen that the average daily temperature and absolute humidity sustained a closer relation than any other atmospheric condition.

a See foot-notes to Exhibit K, page 266.

b Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

c Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

4 Exceptions to the proposition that the Relative Humidity was less than the average in months when more than the average number of deaths occurred, and vice versa.

e Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

f Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

g Exceptions to the proposition that the Atmospheric Pressure indicated by the barometer, was less than the average in months when more than the average number of deaths occurred, and vice versa.

EXHIBIT U.—CONGESTIVE CHILLS.—Deaths Returned as having occurred in Michigan from Congestive Chills by Months, during the Year 1880, and some coincident Meteorological conditions.

	NTHS	fron ges Ch	aths a Con- stive Ills, 880.	Degr		Hum	Etc.,-	Atmos Monthl rages.	sphere, y	Ozone, ative. imum	-Rel- Max- = 10.	Miles per Hour,—		phcre.	Inche	Atmos- s of Mer 32° F.)
BY	NUM- ROF			ng Day egister- t 7 A. M.	tions at	Cent. of	r ln Cu-	Vapor fn 24	f Vapor es in 24 ibaled a			, Miles p.	Inches.	Rang		
CO T CH GRE	ATHS ROM NGES- IVE ILLS, ATEST RST.	Number.	Per Cent. of Total.	Average Dally Range during Day and following Night, by Register- ing Therm'ter Observed at 7 A. M.	Average of Dally Observations 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or PerCent. of Saturation.	Weight, in Grains, of Vapor in Cu- bic Foot of Air.a	Weight, in Troy Ounces, of Inhaled by one person hours.a	Weight, in Troy Ounces, of Vapor exhaled from Air passages in 24 hours, in excess of vapor inhaled a	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, M by Registering Anemometer,	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average, Dally.	Average Pressure.
Year	r, 1880.	68	100,00	18.61	49,25	68	3.49	2.18	9,50	3.70	4.14	9.4	49.54	1.514	.215	29,010
	Sept	14	20,59	21.17	61.71	69	4.72	2.95	8.73	• 3.73	3,60	8.1	4.13	f.643	g .129	29.058
More than the Av. No. of Deaths.	Aug	12	17.65	20.65	70.70	72	6,06	3.79	7.89	2.90	2.87	5.9	6,02	1.644	g . 121	29,059
S C C	Oct	7	10.29	20.16	c 48.99	69	4 3.16	1.93	9.70	3. 19	8.71	7.8	2.84	1.022	.215	29.043
No. of Deaths.	May.	6	8,82	20.65	66,03	60	4.76	2.98	8.70	• 3.81	e 4.32	10.4	6.81	1.922	s .157	h 20,009
20	June.	6	8,82	ь 18.43	69.79	67	5.60	3.50	2.18	8.53	3.87	8.3	6,96	f.916	g .136	h 28,983
7	Dec	6	8,82	b 10.74	¢21.90	78	d 1.30	0.81	10.57	e 4.55	• 5.26	7.4	.66	1.370	. <del>2</del> 52	h 29.011
Aver	age	5.7	8,38	18.61	49.25	68	3,49	2.18	9.50	3.70	4.14	9.4	4.12	.990	.215	29.016
	July	5	7.35	b 20.81	c 72.27	69	d 6.12	3.83	7.85	• 8.39	• 3.61	6.5	6.00	.549	. 105	28 906
₽ 4.	Feb	4	5.88	18,17	31.60	58	1.74	1.09	10.59	4.38	4.97	12.7	1.85	ſ 1.253	g .816	28,973
Less than the Av. No. of Deaths.	Mar	3	4,41	b 19.45	31.34	63	1.75	1,09	10,59	• 8.42	• 3.81	12.8	2,00	f 1.423	£ .314	b 29.042
No. of Deaths.	Jan	2	2,91	17.10	87.10	75	2,22	1.39	10.29	• 2,90	• 3.16	11.0	2.67	f 1.374	£ .322	28,998
So.	Apr	2	2,94	<b>▶20.63</b>	47.50	59	2.76	1.73	9.95	4.28	4.93	13.8	7.06	.954	g .282	28.916
-	Nov.	1	1.47	15.83	29.17	72	1.67	1.04	10,64	4.33	5,60	8.6	2,38	f 1.014	s .234	h 29.115

Intermittent Fever is reported to have caused the death of 32 persons during the year 1880, which is a decrease of 14 from the number returned in 1879. The disease seems to be influenced by the same atmospheric conditions as Congestive Chills, but there is only one exception to the proposition that the At-

<sup>See foot-notes to Exhibit K, page 266.
Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average in months occurred, and vice versa.
Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average in months of deaths occurred, and vice versa.
Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.</sup> 

mospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice

**EXHIBIT** W.—Intermittent Fever.—Deaths returned as having occurred in Michigan from Intermittent Fever, by Months, during the Year 1880, and some coincident Meteorological conditions.

	NTHS	from mi F	Inter- ttent ever, 880.				re, Etc	of Ati .,—Mor rages.		Maxi	,—Rel- lve. mum 10.	Miles per Hour,—		pher	e. Inc Mercur	Atmoshes of y. 82° F.)
BY BE	NUM- R OF ATUS			Range during Day Night, by Register. Observed at 7 A.M.	rations at	Per Cent.	oor In Cu-	of Vapor m in 24	nnces, of Vapor passages in 24 vapor inhaled.a				Inches.	Rang Baron		
IN MIT FE GRE	ROM TER- TENT VER, ATEST RST.	Number.	Per Cent. of Total.	Average Daily Range du and following Night, by ing Therm'trs. Observed	Average of Dally Observations 7 A. M. 2 P. M., and 9 P. M.	Relative Humidity, or P.	Weight, in Grains, of Vapor in bic Foot of Air.a	Weight, in Troy Ounces, of Inhaled by one person hours.*	Weight, in Troy Ounces, of Vapor exhaled from Air passages in 24 hoursin excess of vapor inhaled.»	Дау,-7 А. М. to 2 Р. М.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, M by Registering Anemometer.	Rain and Meited Snow, in Inches.	Monthly, and Year.	Average, Dally.	Average Pressure,
Yea	r, 1880.	82	100.00	18.61	49,25	68	3.49	2,18	9,50	8.70	4.14	9.4	49.54	1.514	.215	29.016
	Sept.	5	15,63	21.17	61.71	60	4.72	2.95	8.73	3.73	3,60	8,1	4.13	1.613	g .129	29,058
No. of Deaths.	Nov	5	15.62	6 15.33	c 29.17	72	4 1.67	1.04	10.64	e 4,33	e 5.60	8,6	2,38	1,014	.234	29.118
6 6 0 1	Aug.	4	12.50	20,65	70.70	72	6.06	3.79	7,89	2,90	2.87	5,9	6.02	1,644	ĸ.121	29.052
2 2	Oct	4	12.50	20,16	c 48.99	69	d 3.16	1.98	9.70	3,19	3.71	7.8	2.84	1.022	.215	29,043
	Mar	3	9,38	19,45	a 34.34	63	d 1.75	1.09	10.59	3.42	3,81	12.8	2.00	1.422	.314	29,042
•	(July	3	9,35	20.81	72.27	69	6.12	3,83	7.85	3,33	3,61	6.5	6.00	1,549	к.105	h 28,996
∆ver	age	2.7	8.44	18,61	49,25	68	3,49	2,18	9,50	3.70	4.14	9,4	4.12	.990	.215	29.016
<u>e</u>	April	2	6.25	b 20,63	47.50	59	2.76	1.73	9.93	4.28	4.93	13.5	7.06	.954	g . 282	28,916
B.	June.	2	6.25	18.43	e 69.79	67	4 5,60	3.50	8.18	. 3,53	• 3.87	8,3	6.96	.916	.136	28,983
eat)	Dec	2	6,23	10.74	21.80	78	1.30	0,81	10.87	4.55	5.26	7.4	.66	f 1,370	g .252	29,011
No. of Deaths.	Feb	1	3,13	18.17	31,60	58	1.74	1 09	10.59	4.38	4.97	12,7	1.85	f 1,253	£ .316	28,973
Less than the Average No. of Deaths.	May	1	3.13	ь 20,65	c 66,03	60	d 4.76	2,98	8.70	3.81	4.82	10,4	6.81	.922	.157	29,002
Į.	Jan	0		17.10	37.10	75	2,22	1.39	10,29	• 2.90	• 3.16	11.0	2.67	f 1.174	€ .322	28,998

a See foot-notes to Exhibit K, page 266.

b Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

c Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

d Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exception to the proposition that the Atmosphoric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

EXHIBIT 22.—CEPHALITIS.—Deaths Returned as having occurred in Michigan, from Cephalitis, by Months, during the Year 1880, and some coincident Meteorological conditions.

	Months	Cep	eaths rom halitis, 880.		Temp ture Degr Fal	ees	H	uın Etc.	idity ( ,—Mon	of Atm thly A	osphere, rerages.		tive. mum	nd, Miles per Anemometer.		phere. Fahr.)
Nt Dea Ce G	ORDER BY UMBER OF ATHS FROM SPHALITIS, REATEST FIRST.	Number.	Per Cent, of Total.	uge D	Night, by Reg. Thermom- eters. Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M., 2 P. M., and 9 P. M	Relative Humidity, or Per	Cent, of Saturation.	Weight, in Grains, of Va- por in Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor inhaled by one per- son in 24 hours.a	Weight, in Troy Ounces, of Vapor exhaled from Air passages in 24 hours, in excess of vapor inhaled.a	Day,- 7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Miles Hour,-by Registering Anemome	Rain-fall, in Inches.	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fahr.)
Year	r, 1880	300	100.00	_	18.61	49.25	Ī	68	8.49	2.18	9,50	8.70	4.14	9.4	49.54	29.016
	/ July	38	12.67	-	20 81	72.27	d	69	6.12	3.83	7.85	3,39	3.61	6.5	6.00	28,996
¥ ë	September	36	12.00		21.17	61.71	d	69	4.72	2.95	8.73	1 3.73	3,60	8.1	4.13	29,058
9 5	August	33	11.00		20.65	70.70	đ	72	6.06	3.79	7,89	2.90	2.87	5.9	6.09	<b>2</b> 9.052
ore than the A No. of Deaths.	October	27	9.00		20.16	• 48.99	a	69	<b>c 3</b> .16	1,98	9.70	3, 19	3,71	7.8	2.84	29.043
More than the Av. No. of Deaths.	December.	27	9.00	١,	10.74	e 21.80	d	78	• 1.30	0.81	10,87	14.55	f 5.26	7.4	.66	29.011
Ħ	June	25	8.33	<b>b</b>	18.43	69.79		67	5,60	3,50	8,18	3.53	8.87	8.8	6,96	28.982
Ave	rage	25	8.38		18.61	49.25		<b>6</b> 8	3.49	2,18	9.50	3.70	4.14	9.4	4.12	29.016
	March	24	8,00	ь	19.45	34.34	d	63	1,75	1.09	10,59	1 3,42	1 <b>3.</b> 81	12.8	2,00	29,042
Less than the Av. Number of Deaths.	May	21	7.00	ь	20,65	66,03	d	60	• 4.76	2.98	8.70	3.81	4,82	10.4	6.81	29,002
30	January	19	6.33		17.10	87.10		75	2.22	1,39	10.29	12,90	f 3.16	11.0	2.67	28,998
er of	February.	18	6.00		18.17	81.60	4	58	1.74	1.09	10.59	4.38	4.97	12,7	1.85	28,978
E P	April	16	5.33	ь	20.63	47.50	d	59	2.76	1.73	9.95	4.28	4.93	13.8	7.06	28,916
ŲŽ,	Novem ber	16	5.33		15.33	29.17		72	1.67	1.04	10.64	4.23	5,60	8,6	2.38	29,118

Cephalitis.—The mortality from this disease numbered 300 in 1880, which is larger than any number returned since 1873, and is larger by 31 than the annual average of the past ten years; 35.67 per cent. of the deaths from this disease occurred in July, August, and September, the month of July having the largest number; 67.33 per cent. of the victims were under five years of Exhibit 22 contains data concerning deaths from cephalitis and the coincident meteorological conditions.

<sup>See foot-notes to Exhibit K, page 286.
Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Daily Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Relative Humidity was less than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.</sup> 

EXHIBIT X.—Typhoid Fever.—Death's Returned as having occurred in Michigan from Typhoid Fever, by Months, during the Year 1880, and some coincident Meteorological conditions.

	тиз іх	Typ Fe	aths om hold ver, 80.	Temp ture Deg Fa	rees		idity of -Month			Ozon Rela Maxi =	tive.	per Hour,-		pher	e. Inc Mercur	
-	EDER UMBER			by Registeriat 7 A. M.	Observations at d 9 P. M.	nt, of	n Cu-	Vapor ours.a	from Air passages in 24 excess of vapor inhaled.			5	ches.	Rang	re of neter.	
of D	BATH8			Reg 7 A.	vatio M.	er Ce	Vapor In	0 24 b	Ounces, of Var Air passages in of vapor inhale			y of Wind, Mil Anemometer.	ğ			
	ROM			thy Range dr ing Night by Observed at	2 P. M., and 9 P. M.	or P	of Vi	nees son fi	Ounces, Mr passa of vapor	×.	A. M.	of W	, wo			
	PHOID		tal.	Range Night served	ly O and	ilty,		per per	Alr	M. to 2 P.	ж. то 7	ty o	d Sn	ear.		į
	EVRR, RATEST		f To	Dally owing r. Obs	Dally . M., an	amie	Gral	Tro	Troy rom A	M. to	×	Velocity stering A	felte	J pu	Daily.	į
	IRST.	Number.	Per Cent. of Total.	Average Dally Range and following Night ing Ther. Observed	Average of ]	Relative Humidity, or Per Cent. Saturation.	Weight, in Grains, abic Foot of Air.	Weight, in Troy Ounces, of Vapor Inhaled by one person in 24 hours."	Weight, in Troy Exhaled from hours in excess	Day,-7 A.	Night,-9 P.	Average Velocity	Rain and Meited Snow, in Inches.	Monthly, and Year.	Average, D	Average Pressure.
Year	, 1890	518	100.00	18.61	49.25	68	3,49	2.18	9.50	3.70	4.14	9.4	49.54	1.514	.215	29.016
ا. خ	(Sept.	92	17,93	21.17	61.71	69	4.72	2,95	8,73	e 3.73	3,60	8,1	4.13	1 .643	£ .129	29,068
More than the Av. No. of Deaths.	Oct	87	16,96	20.16	¢ 48,90	69	4 3, 16	1.98	9.70	3, 19	3,71	7.8	2.84	1.022	.215	29.043
an D	Aug	78	14.23	20.65	70,70	72	6.06	3,79	7.89	2,90	2.87	5.9	6.02	1.644	€ .121	29.052
0.0 0.0	Nov	58	11.31	ь 15.33	e 29.17	72	4 1.67	1.04	10.64	c 4.33	€ 5,60	8.6	2.38	1.014	.234	29.113
ş z	Dec	44	8.58	b 10.74	e 21.80	78	d 1.30	0,81	10.87	e 4.55	€ 5.26	7.4	.66	1.370	.252	ь <b>29.0</b> 11
A v e i	rage	43	8.38	18,61	49.25	68	3,49	2,18	9,50	3.70	4.14	9,4	4.12	.990	.215	29.916
٠. ا	July	35	6.82	t 20,81	172,27	69	4 6.12	3,83	7.85	e 3.39	* 3.61	6.5	6.00	.549	. 103	28,996
E d	April.	28	5.46	b 20.63	47.50	59	2.76	1,78	9,95	4.28	4.93	13.8	7.08	.954	g .282	28,916
Less than the Average Number of Deaths.	Jan	22	4.29	17.10	37.10	75	2.22	1.39	10.29	e 2,90	* 3.16	11.0	2.67	f 1.174	a .822	28,998
e E	Mar	22	4.29	6 19.45	34.34	63	1.75	1.09	10.50	e 3.42	e 3.81	12.8	2.00	f 1.422	€.814	h 29.042
Der Der	May	20	3.90	b 20.65	a 66.03	60	d 4.76	2,98	8.70	3,81	4.32	10.4	6.81	.922	.157	29,802
Nun	June	19	3.70	18,43	€ 69.79	67	d 5,60	3.50	8.18	« 3.53	• 3.87	8.3	6.96	.916	. 136	28.963
Ă	Feb	13	2.53	18.17	21,60	58	1.74	1.09	10.59	4.38	4.97	12.7	1.85	f 1.253	€ .316	28.973

^{*}See foot-netes to Exhibit K, page 268.

*Exceptions to the proposition that the Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

*Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

*Exceptions to the proposition that the Abolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

*Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

*Exceptions to the proposition that the Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

*Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

*Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Typhoid Fever.—An increased mortality from this disease was reported in 1880, and the total number of deaths returned was 513, a number more by 116 than was reported in 1879, and more than for any year since 1874. It exceeds the average annual number of deaths from this disease for the ten years 1871–1880 by 32. The number of deaths from typhoid fever in 1880 was 3.19 per cent. of the deaths from all causes. During the months of August, September, and October, 49.12 per cent. of the deaths from this disease occurred, and 39.77 per cent. of the decedents were between the ages of 15 and 30 years.

Exhibit X permits of the study of deaths from typhoid fever in connection with coincident meteorological conditions. In 1880, this disease was most prevalent or most fatal in months when the barometric pressure was the greatest. To the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa, there were only two exceptions. The evidence of former years also attests the truth of this proposition.

Diarrhea.—The number of deaths from this disease in 1880, was: acute diarrhea, 296; chronic diarrhea, 14; total, 310, or 1.93 per cent. of the deaths from all causes. The number of deaths was 84 more than was returned in 1879, and is a larger mortality than has been returned for any year since 1874. The order of the years 1869–1880, those being placed first in order which show the largest number of deaths from diarrhea, is as follows: 1872, 437; 1870, 407; 1873, 383; 1874, 380; 1869, 311; 1880, 310; 1876, 304; 1877, 290; 1875, 283; 1879, 226; 1871, 216; 1878, 173. In 1880, the largest number of deaths occurred in the month of August, and during the three months of July, August, and September, 72.58 per cent. of all the deaths from this disease occurred; 88.06 per cent. of the decedents from diarrhea were under 5 years of age.

Exhibit 16 shows the relation which the deaths from diarrhea during the months of July and August for each of the years 1872–1880, have to the coincident meteorological conditions. The evidence of Exhibit 16 for 1880, and also for previous years, indicates that a warm, moist atmosphere is usually attended with a large number of deaths from diarrhea.

Exhibit 21 affords an opportunity of studying the relations between deaths from diarrhea for each month of the year 1880, and coincident meteorological conditions. By referring to Exhibit 21, it will be seen that there are only two exceptions to the proposition that more than the average number of deaths occurred in months when the temperature was higher than the average, and vice versa.

Table XXI., page 282, combines the data concerning the deaths from diarrhea and dysentery by geographical divisions during the year 1880. The northeastern division has the largest per cent. of deaths from diarrhea, and the northern division has the largest per cent. from dysentery.

EXHIBIT 16.—Diarrhea.—Deaths in Michigan from Diarrhea in July and August of each of the Years 1872-1880, the Average for Nine Years ending with 1880, and some coincident Meteorological conditions, at the Agricultural College, Michigan.

_	Diarrhea.	Mean servat	erature of 8 Da tions,—'	ily Ob-	Atmor Etc Mon	dity of sphere, thly ages.	Maxi	tive.	ind, Miles	n Inches.	of A	Pressur Atmosp s of Me aced to	
JULY AND AUGUST OF EACH	from		rage age.		y, or	Foot	P. M.	А.М.	of W egiste	now, 1	Rang		
OF THE YEARS 1872-1880.	Number of Deaths from	Dally.	From Day to Day,-2 P. M. to 2 P. M.	Average.	Relative Humidity, or Per Cent. of Satura- tion.	Weight, in Grains, of Vapor in Cubic Foot of Air,a	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A.M.	Average Velocity of Wind, per Hour,—by Begistering mometer.	Rain and Melted Snow, in Inches.	Monthly.	Average, Dally.	Average Pressure.
Average   July.	62 94	16.31 17.10	18,92 19,53	71.83 69.87	75 77	6.39 6.05	2.59 2.79	2.17 1.69	6.1 1.9	3.248 2.784	.526 .505	.144	29,008 29,018
1872   July.	80 145		4 19.55 17.61	79.91 71.22	79 88	7.33 7.15	.88	1 2.28		3.360 4.180	.404 .372	.081	J 28,924 J 28,967
1873 { July. Aug	65 105	15 85 • 18,55	18.68 4 21.32	• 70,82 69,49	78 81	6.45 6.29	1 3,59 1 3,55	1 3,06 1 2,65		5.124 1,796	.453 .574	.083	J 28.914 J 28.927
1874 { July. Aug	6) 104	17. <b>6</b> 8 • 17.23	21.85 d 19.61	• 72.02 69.39	71 g 74	6.00 1 5.75	1 1.80	1 1.50 1.10		2.560 f 1.278	.465 .503	.078 .065	28,907 J 28,924
1875   July. Aug	56 80	• 16.26 • 16.90	4 18.26 4 18.61	69.67 65,48	s 78	5.91 5.22	3.52 3,50	3.22 3.70		2.420 1.470	.584 .806	.696 .652	J 29,044 J 29,025
1876 July.	69 98	15.87 • 17.74		72.48 71.55	78 g 76	6.76 6.31	2.16 1.97	1,58 1,26		f 2,100 f 1,280	.507 .459	.070	29,009 29,048
1877 } July.	55 96		20.42 19.48	71.48 • 68.46			2.71 18.42	1.77 1.03		2,250 6,570	.655 .401	.088	1 29,069 29,046
1878 { July. Aug.	39 47		4 18.10 19.74	• 78.04 • 70.15				1.74	3,1 3,1	2.960 1.850	.611 .434	.068	J 29,085 29,010
1879 July.	44 82		4 18.90 20.90	e 74.03	71 70		2.90 12.58	1 2.18 1.76			.608 .355	.073	j 29.057 J 29.100
1880 July Aug	86 90	15.68 c 13,90	17,16 4 17.55					2.23 2.23		6.270 r 6,020	.449 .640	.057 .071	29.068 J 29.126

a See foot-notes to Exhibit K, page 266.
be Exceptions to the proposition that the Average Daily Range of Temperature was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea; occurred, and vice versa.

Exceptions to the proposition that the Average Range of Temperature "from day to day" was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Average Temperature was higher than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the amount of rain and molted snow was greater than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Average Relative Humidity was greater than the average for July or August in months of July or August when more than the average number of leaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Absolute Humidity was greater than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Day or Night Ozone was less than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

Exceptions to the proposition that the Atmospheric Pressure was more than the average for July or August in months of July or August when more than the average number of deaths from Diarrhea occurred, and vice versa.

EXHIBIT 21.—DIARRHEA.—Deaths Returned as having occurred in Michigan from Diarrhea, by Months, during the Year 1880, and some coincident Meteorological conditions at the Office of the State Board of Health, at Lansing.

_	Months	Diar	om rhea, 80.	Tem tur Deg Fa	ees		Ati Av.	of of	i 9 P.	Ozone, tive.— of 10 De of Co tio	Scale grees lora-	per Hour,-	of A	Pressur Atmosph s of Me ced to	rcury.
N	ORDER BY			g night, by Reg'ng Observed at 7 A.M.	P. M.	Rain and Melted Snow.	Per Cent.		Ins of	M. to 2	M. to	Wind, Miles nometer.	Rang		
	DEATHS FROM			duri by	Observation and 9 P. M.	felte	or Pe		ot of	Α.	9 9	y of Wind, M		M.	
Đ	IARRHEA,		Ti.	ange dght, serv	W., a	ou y	ty, o	ratto	c Fo	7-1 M.	M.	y of	Yes	ang 7 A.	نو
	REATEST FIRST.	Number.	Per Cent. of Total.	Average Daily Range during day and following night, by Reg'ng Therm'ters. Observed at 7 A.M.	Average of Dally Observations at 7 A. M., 2 P. M., and 9 P. M.	Inches of Rain a	Relative Humidity,	of Saturation.	Absolute Humidity,—Grains Vapor in a Cubic Foot of Air.	Day Observation,-7	Night Observation, 7 A. M.	Average Velocity by Registering A	Monthly, and for Year.	Average Dally Range of Observations at 7 A. M., 2 P. M., and 9 P. M.	Average Pressure.
Year l	1830	310	100.00	18,61	49.25	49,54		68	3,49	3.70	4.14	9.4	1.514	.215	29.01
<b>E</b> .9 <b>S</b>	(Aug	90	29.03	20,65	70.70	6.02	a	72	6,06	2,90	2.87	5.9	g .644	h . 121	29.05
More than the Av. No. of Deaths.	July	86	27.74	20,81	72.27	6,00	d	69	6.12	3,39	3,61	6,5	g .549	ъ.105	1 28,99
949	Sept	49	15.81	21.17	61.71	4.13	d	69	4.72	f 3.73	3,60	8,1	к .643	h .129	29.05
Aver	.ge	26	8.39	18,61	49,25	4,12		68	3,49	3,70	4.14	9,4	.990	.215	29.01
	June	23	7.42	18,43	e 69.79	6.96	a	67	• 5,60	f 3,53	f 3,87	8,3	.916	.136	28,98
ತ್ತ	Oct	17	5.48	ь 20.16	48.99	2,84	1	69	3,16	f 3, 19	13.71	7.8	g 1.022	.215	1 29.04
<b>8</b>	Мау	9	2.90	ь 20.65	c 66.03	6.81	4	60	+ 4.76	3.81	4.32	10.4	,922	,157	29.00
Ę	Nov	9	2,90	15,33	29.17	2.38	1	72	1.67	4.33	5.60	8.6	€ 1.014	h .234	1 29.11
Per P	Dec	7	2.26	10.74	21,80	.66		78	1.30	4 55	5,26	7.4	g 1.370	h .252	29.01
f.6ss than the Average No. of Deaths.	Feb	6	1.94	18,17	31.60	1,85	4	58	1.74	4.38	4.97	12.7	s 1.253	h .316	28.97
2 2	March	6	1.94	ь 19.45	34.34	2.00	d	63	1.75	f 3.42	f 3,81	12.8	g 1.422	h ,314	1 29.04
Š	Jan	5	1.61	17.10	37.10	2.67		75	2.22	f 2.90	1 3,16	11.0	g 1.174	a .322	28,99
	April	3	.97	b 20.63	47.50	7.06	1	59	2.76	4.28	4.93	13.5	,954	h .282	28.91

a See foot-notes to Exhibit K, page 266.
b Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Range of Temperature was greater than the average, and vice versa.

e Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Temperature was higher than the average, and vice

versa.

4 Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Relative Humidity of the Atmosphere was less than the average, and

Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Absolute Humidity of the Atmosphere was greater than the average,

and vice versa.

f Exceptions to the proposition that *more* than the average number of deaths from Diarrhea occurred in months when the Amount of Ozone in the Atmosphere was *less* than the average, and

s Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Monthly Range of Barometer was greater than the average, and vice

A Exceptions to the proposition that *more* than the average number of deaths from Diarrhea occurred in months when the Average Daily Range of Barometer was greater than the average, and

vice verse.

1 Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Pressure of the Atmosphere was greater than the average, and vice verse.

TABLE XXI.—DIARRHEA AND DYSENTERY.—Exhibiting for the State and for Eleven Geographical Divisions of the State, during the Year 1880, the Number of Deaths Returned as having occurred from Diarrhea and from Dysentery, and the Per Cent. of Deaths from each Disease to Deaths from All Causes.

		IEA, 1880. ID CHRONIC.		ERY, 1880. ID CHEONIC.
STATE AND GEOGRAPHICAL DIVISIONS.A	Number of Deaths, 1880.	Per Cent. to Deaths from All Causes, by Geograph ical Divis- ions.	Number of Deaths, 1880.	Per Cent. to Deaths from All Causes, by Geographical Divisions.
STATE	310	1.93	160	.99
Upper-peninsular	22	2.17	11	1.09
Northwestern	5	1.29	4	1.08
Northern	3	1.26	5	2.09
Northeastern	12	7.50	1	.63
Western	31	1.49	26	1.25
Northern-central	4	.79	7	1.88
Bay and Eastern	40	1.67	21	.87
Central	24	1.00	19	.79
Southwestern	13	1.28	7	.69
Southern-central	19	.75	29	1.15
Southeastern	187	4.05	30	.89-

[.] For counties included in each Division, see page 166.

Dysentery.—This disease was recorded as the cause of 155 deaths in 1880, an increase of 22 over the number registered in 1879. Over two-thirds of the deaths from dysentery occurred in July, August, and September; and 78.71 per cent. of the decedents were under five years of age.

Rheumatism.—During the year 1880, according to the returns, 72 deaths occurred from rheumatism in the State. The deaths are distributed very equally throughout the different months of the year; the month of May having the largest mortality, and the month of February the smallest. Exhibit 19 shows that there are only two exceptions to the proposition that the air contained more than the average amount of vapor of water in months when more than the average number of deaths from rheumatism occurred, and vice versa.

EXHIBIT 19.—Rheumatism.—Deaths returned as having occurred in Michigan from Rheumatism, by Months, during the Year 1880, and some coincident Meteorological conditions.

27.7	NTRS	De	aths.	Temp ture Degr Fa	rees	A	Humi tmosph onthly	dity of ere, Et Avera	c.,-	Maxi	tive.	F Rour,-		pher	ure of e. Inc Mercur ced to 3	hei	s of
NU	RDER BY MBER OF			during Day by Register- ed at 7 a. M.	tions at	Per Cent.	Vapor in	of Vapor	passages in 24 vapor inhaled.s			Wind, Miles per nometer.	in Inches.	Rang	ge of neter.		
DE FI RHI TI GRE	ATHS ROM EUMA- SM,* ATEST	Number.	Per Cent. of Total.	Average Daily Range during Day and following Night, by Register- ing Therm'rs. Observed at 7 A. M.	Average of Daily Observations 7A. M., 2 P. M., and 9 F. M.	Relative Humidity, or P. of Saturation.	Weight, in Grains, of V Cubic Foot of Air.s	Welght, in Troy Ounces, o Inhaled by one person in 2	Weight, in Troy Ounces, o Exhaled from Air passag hours in excess of vapor i	Day,—7 А. М. to 2 Р. М.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Mi by Registering Ancmometer.	Rain and Melted Snow, in	Monthly, and Year.	Average, Dally.		Average Pressure.
Year	r, 1880.	*72	100,00	18.61	49.25	68	3,49	2,18	9,50	3.70	4,14	94	49.54	1.514	.215		29,016
	May	10	13.89	20.65	66.03	60	4.76	2.98	8.70	a 3.51	· 4.32	10,4	6.81	.922	.157	đ	29,002
No. of Deaths.	Sept.	9	12.50	21,17	61.71	69	4.72	2.95	8.78	c 3.73	3.60	8,1	4.13	.643	.129		29.058
AA.	July .	8	11.11	20.81	72.27	69	6.12	3,83	7.85	3.39	3,61	6.5	6.00	.549	.105	d	28,996
o th	April.	6	8.33	20.63	47.50	59	b 2.76	1.73	9,95	· 4,28	€ 4.93	13.8	7.06	.954	,282	d	28,916
No	June.	6	8.33	18,43	69.79	67	5.60	3.50	8,18	3.53	3.87	8.3	6.96	.916	.136	đ	28,983
Ave	rage	6	8.33	18.61	49.25	68	3.49	2.18	9.50	3.70	4.14	9.4	4.12	.990	.215		29,016
	Oct	6	8.33	20.16	48,99	69	3, 16	1.98	9.70	c 3.19	e 3.71	7.8	2,84	1.022	.215	d	29.043
£ .	Nov	6	8.33	15.33	29.17	72	1.67	1.04	10,64	4.33	5.60	8.6	2.38	1.014	.234	d	29.113
athe	Jan	5	6,94	17.10	37,10	75	2.22	1.39	10,29	e 2.90	e 3.16	11.0	2.67	1.174	.322		28,998
Less than the Av. No. of Deaths.	Dec	5	6,94	10.74	21.80	78	1.30	.81	10.87	4.55	5.26	7.4	.66	1.370	.252		29.011
0.0	March	4	5.56	19.45	84.34	63	1,75	1.09	10.59	e 3.42	c 3.81	12.8	2,00	1.422	.314	a	29.042
3	Aug	4	5.56	20,65	70,70	72	b 6.06	3,79	7,80	c 2,90	a 2.87	5,9	6.02	.614	, .121	d	29.052
	Feb	3	4.17	15,17	31.60	58	1.74	1.09	10,59	4.38	4.97	12.7	1.85	1.253	.316		28,973

Includes Rheumatism of Heart, Inflammatory, Sciatic, Spinal, and Rheumatism.
 See foot-notes to Exhibit K, page 266.
 Exceptions to the proposition that the air contains more than the average amount of vapor of water in months when more than the average number of deaths from Rheumatism occurred, and vice versa.
 Exceptions to the proposition that there was less than the average Ozone in the air in months when more than the average number of deaths from Rheumatism occurred, and vice versa.
 Exceptions to the proposition that the Atmospheric Pressure was greater than the average in months when more than the average number of deaths from Rheumatism occurred, and vice versa.

EXHIBIT Y.—Scarlet Fever.—Deaths returned as having occurred from Scarlet Fever in Michigan during the year 1880, and some coincident Meteorological conditions.

Mo	ONTHS IN ORDER	Sc F	eaths rom arlet ever, 880.	Temp ture Degr Fah	ees				osphere, erages.	Ozor Rela Maxin	tive.	Ind, Miles per Anemometer.	phere.
_	BY NUMBER OF DEATHS FROM SCARLET FEVER, GREATEST FIRST.		Per Cent. of Total,	Average Daily Runge dur- ing Day and following Night by Reg. Therm'rs. Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air."	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours.a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled, a	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Hour,-by Registering Ane	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fahr.)
YEA	R, 1880	b369	100,00	18,61	49,25	68	3.49	2.18	9,50	3,70	4.14	9,4	29,016
<u></u> ا . زخ	November	46	12,47	15,33	29,17	72	1.67	1,04	10.64	4.33	5.60	8.6	29.113
he A	December	43	11,65	10.74	21.80	78	1.30	0,81	10.87	4,55	5.26	7.4	29.011
More than the Av. No. of Deaths.	April	42	11.38	c 20,63	47.56	59	2.76	1.73	9,48	4,28	4.93	13.8	28,916
0. ct	May	35	9,49	€ 20,65	c 66.03	60	4 4.76	2.98	8.70	3.81	4.32	10.4	29,002
Koz	   August	84	9.21	a 20.65	c 70.70	72	d 6,06	3.79	7,89	2.90	2,87	5.9	29,052
Ave	rago	31	8,40	18.61	49.25	68	3.49	2,18	9.50	3.70	4.14	9.4	29,016
	March	30	8.13	19,45	· 34.34	63	d 1.75	1.09	10.59	3.42	3.81	12,5	29.042
	October	28	7,59	20.16	c 48,99	69	d 3,16	1.98	9,70	3,19	3.71	7.8	29.043
Less than the Av. No. of Deaths.	January	25	6.78	• 17.10	c 37.10	75	d 2.22	1.39	10.29	2,90	3,16	11.0	28,998
T D	June	23	6,23	• 18.43	69,79	67	5.60	3,50	8.18	3.53	3.87	8,3	28,983
o th	February	22	5.96	• 18.17	a 31.60	58	d 1.74	1.09	10.59	4.38	4.97	12.7	28,973
Z E	September	21	5.69	21.17	61.71	69	4.72	2.95	9.78	3,73	3.60	8.1	29.058
	July	20	5,42	20.81	72.27	69	6.12	3,83	7.85	3.39	3.61	6.5	28,996

Scarlet Fever.—It is gratifying to note that the record of the mortality from this disease in 1880 is smaller than for any year since 1869. The annual average number of deaths for the ten years, 1870–1879, was 521, which is more by 151 than the number returned for 1880. The per cent. of deaths from scarlet fever to deaths from all causes in 1880 is 2.30; this is the smallest per cent. which has been returned for any of the years 1869-1879, and the order of the years, greatest first, is: 1870, 7.91; 1871, 7.15; 1872, 4.20; 1873, 4.02; 1875, 3.53; 1874, 3.52; 1878, 3.36; 1876, 3.17; 1877, 3.13; 1879, 2.90; 1869, 2.76; 1880, 2.30. In 1880, scarlet fever prevailed most during the months of November, December, April, and May; those months having

^{*} See foot-notes to Exhibit K, page 266.

* Excluding lin unknown month.

* Exceptions to the proposition that the Temperature was lower than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice versa.

4 Exceptions to the proposition that the Absolute Humidity of the Atmosphere was less than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice versa.

contributed 44.86 per cent. of all the deaths from this disease. Nearly twothirds of the decedents were under five years of age, and 89.73 per cent. were under the age of ten years. The male decedents exceeded the female decedents in all the years but two.

Exhibit Y affords an opportunity of studying the relation of scarlet fever to

the coincident meteorological conditions in 1880.

Consumption.—The number of deaths registered in 1880 as caused by this disease was 1,829 or 11.36 per cent. of the deaths from all causes. This is the largest mortality from consumption that has ever been returned to the State Department, and it still holds its accustomed place at the head of the list of fatal diseases. By reference to table XVII., page 209, it will be seen that the deaths from consumption are very uniformly distributed throughout all the months of the year, and that the different seasons appear to have but little influence in promoting the fatality of the disease. Making the comparison according to the quarters of the year, shows the following: first quarter, 424; second quarter, 432; third quarter, 487; and fourth quarter, 480. For 1880, the greatest number of deaths occurred in the month of September, and the smallest number in June.

Most of its victims in this State are from the female sex, and between the ages of fifteen and thirty years, the excess of females in 1880 being 135. This marked disparity between the two sexes, as regards the number of decedents, has been the case in every year since the compilation began, and is very significant, when it is remembered that the male population outnumbers the female population in this State. According to the U.S. Census of 1880, the excess of male inhabitants was 87,773.

EXHIBIT N.—Consumption.—By Sex, the Number of Deaths Returned as having occurred in Michigan from Consumption during the Year 1880, by Months Equalized to Uniform length of 30.44 days each; also the Average Number per Month. (Deaths in unknown month excluded.)

		1	DEATHS FROM CONSUMPTION IN 1880, BY MONTHS OF EQUAL LENGTH.													
SEX.	TOTAL.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Av.		
Total	a 1,822	126	181	168	161	150	123	150	149	187	126	176	175	151.83		
Malea	844	56	59	85	77	70	56	70	68	79	59	89	76	70.33		
Females.	978	70	72	88	84	80	67	80	81	108	67	87	99	81.50		

^{*} Excluding 6 deaths in unknown month, and 1 female lost in equalizing. The number of deaths from consumption, as returned, is 1,829.

36—1880.

EXHIBIT O.—Consumption.—Deaths from Consumption, Returned as having occurred in Michigan, by Months, during the Year 1880, and some coincident Meleorological conditions.

	LONTHS IN	Des fom sump	Con-	Temp ture Degr Fal	ecs	100		of Atmo		Ozon Relat Maxis	ive.	Ind, Miles per Anemometer.	Atmosphere. 32° Fahr,)
ORDER BY NUMBER OF DEATHS FROM CONSUMPTION, GREATEST FIRST.		Number.	Per Cent. of Total.	Average Daily Range durring Day and following Night by Reg. Therm'trs. Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Va- por in Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours. a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours in excess of vapor inhaled.	рау,-7 л. м. to 2 г. м.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Hour,-by Registering Ansi	Average Pressure of Ata (Barometer Reduced to 32°
Year	, 1880	b],823	100,00	18,61	49,25	68	3.49	2.18	9.50	3.70	4.14	9.4	29,016
-	Sept	184	10.09	21, 17	61.71	69	4.72	2,95	8.73	3.73	3.60	8.1	29.058
Average saths.	Dec	178	9,76	€ 10.74	c 21.80	78	1.30	d 0.81	10,87	4,55	5.26	7.4	29.011
	Nov	174	9.51	c 15.33	e 29.17	72	1.67	d 1.04	10.64	4.33	5.60	8.6	29.113
	March	171	9,38	19.45	6 34.34	63	1.75	4 1.09	10.59	3.42	3.81	12,8	29,049
e than Number	April	159	8.72	20,63	e 47.50	59	2.76	d 1.73	9,95	4.28	4,93	13.8	28,916
Na t	May	152	8.34	20,65	66.03	60	4.76	2,98	8.70	3.81	4,32	10,4	29.002
More	July	152	8.34	20.81	72.27	69	6.12	3.83	7.85	3.39	3.61	6,5	28,996
A ve	rage	151.9	8,33	18,61	49.25	68	3,49	2.18	9,50	3.70	4.14	9.4	29.016
!	Aug	151	8,28	c 20,65	c 70.70	72	6.06	d 3.79	7.89	2,90	2,57	5,9	29,052
A A	Jan	128	7.02	17,10	37.10	75	2,22	1.39	10,29	2.90	3,16	11.0	28,999
Less than Av. No. of Deaths.	Oct	128	7.02	e 20,16	48.99	69	3,16	1,98	9.70	3, 19	3.71	7.8	29,043
0.0	Feb	125	6.86	18,17	31,60	58	1.74	1.09	10.59	4.38	4.97	12.7	28,978
jz	   June	121	6.64	18.43	€ 69.79	67	5.60	d 3,50	8.18	3,53	3.87	8,3	28,983

a See foot-notes to Exhibit K, page 268.

b Excluding 6 in unknown month.
c Exceptions to the proposition that the Temperature was higher than the average in months when more than the average number of deaths from Consumption occurred, and vice versa.
d Exceptions to the proposition that more than an average amount of vapor was inhaled in months in which there was more than the average number of deaths from Consumption, and vice

EXHIBIT 18.—PNEUMONIA.—Deaths in Michigan from Pneumonia in February and March of each of the Years 1872-1880, the Average for Nine Years ending with 1880, and some coincident Meteorological conditions, at the Agricultural College, Michigan.

FEBRUARY	from Pacu-	Mean	eratur of 3 Da tions—	Ily Ob-	Atmos Etc Mor	dity of sphere, i.,— ithly rages.	Rela	ne,— ative. imum 10.	ind, Miles	n Inches.	Pressure of Atmosphere. Inches of Mercury. (Reduced to 82° F.)		
AND MARCH OF			rage nge.		Satura-	Foot	ъ.ж.	A.M.	ty of Wind, N Registering	now, l	Range of Barometer,		
EACH OF THE YEARS 1872-1890.	Number of Deaths monfa.	Daffy.	From Day to Day, 2 P. M. to 2 P. M.	Average.	Relative Humidity, or Per Cent. of Satura- tion.	Weight, in Grains, of Vapor, in Cubic Foot of Air, a	Day,-7 A.M.to 2 P.	Night, -9r.m.to7 A.M.	Average Velocity per Hour,—by E. mometer.	Rafn and Melted Snow, in Inches.	Monthly.	Average, Dally.	Average Pressure.
Av   Fobruary	76 94	14.79 14.22	17.67 16.72	23,52 30,69	86 84	1.49	4,80	5.61 5.66	8.9 10.6	1.537	1.094	.162	28.989 28.969
February	64	20.41	23.21	21.34	1 84	20 11	m 4.00	6.00		.490	1.107		<b>9 28.</b> 849
( March February	75 110	17.82 14.61	6.2536	24.75 g 19.10	1 91	1,43	n 3,00 4.21			.770	1.121 .842	.166	r 28,911 28,847
( March ( February_	57		• 14.07	g 25.51	J 71 89	1.55	5,53	6,10		1.730	1.307	1	q <b>28,9</b> 28
( March February March	108 116 128	13.52 20.14 15.48	16.45 21.57 16.68	32,30 g 8,35 h 26,20	94 J 87	.73 1.63	n 5.78 n 5.70	o 6.57		1,786 2,198 1,020	1.081 1.231 1.231	.206	28.893 28.878 28.844
February	1	13.46 12.76 12.84	0.00	g 27.38	1 84	1.59	5.76 n 6.06	7.27		3.040 4.840	1.033	.176	29.065 28.929
February	56 64	14.79 15.29	17.71	ber b	1 85	1.85	m 4.54 5.29	o 4.14 6.06		.000	1,007	.122	29.124 28.981
February	87 59	• 14.59 • 12.06	• 15.93 16.77	5400	89 J 83	1.91		0 5.33	5.0	2.740	1.033	.123	29.020
February	92 114	11.46	14.79	€ 20.40 33.19	1 92	1,23	4.54	5,01 4.30	12,4	1.430	.964	.151	29.107 29.109
February	82 111	12.00 14.61	16,41	29,19 35,50	68 79	k 1.92	3,83 n 5,52	4.17	12.7	1.620	1.241	.197	9.077 9.181 9.181

[Foot notes to Exhibit 21 continued at bottom of page 288.]

<sup>See foot notes to Exhibit K, page 266.
Three out of nine cases in which the Average Daily Range of Temperature and the deaths were both less than the average.
Two out of nine cases in which the Average Daily Range of Temperature and the deaths were both less than the average.
Three out of nine cases in which the Range of Temperature "from day to day" and the deaths were both less than the average.
One out of nine cases in which the Range of Temperature "from day to day" and the deaths were both less than the average.
Seven out of nine cases in which the Average Temperature was higher and the deaths less than the average.</sup> 

the average, or vice versa.

A Three out of nine cases in which the Average Temperature was higher and the deaths less than

the average, or vice versa.

1 Six out of nine cases in which the Relative Humidity and the deaths were both less than the average, or both greater than the average.

Pneumonia.—This disease was more destructive than usual in 1880. the deaths reported from it being 812; a total more by 111 than the number recorded in 1879. In every year there has been an excess of deaths of males from pneumonia. The greatest fatality occurred in the months of March, April, and December; and the smallest number returned for a single month was 29, in July. Nearly one-half, or 44.58 per cent. of all the deaths from this disease occurred in the first four months of the year. Of the 812 deaths, 328, or 40.39 per cent., were children under five years of age; and 28.69 per cent. were of persons over fifty years of age.

Exhibits 18 and P facilitate the study of deaths from this disease with meteorological conditions. The former shows the relations of meteorological conditions in February and March for the several years 1872-1880, with deaths from Pneumonia in those months for the given years; while the latter shows the influence of meteorological conditions upon deaths from Pneumonia for each month of the year 1880. By examining these exhibits, it will be seen that several atmospheric conditions bear close relations to the deaths from this disease.

J Four out of nine cases in which the Relative Humidity and the deaths were both less than the average, or both greater than the average.

k Two out of nine cases in which the Absolute Humidity and the deaths were both less than the average, or both greater than the average.

l Six out of nine cases in which the Absolute Humidity and the deaths were both less than the average, or both greater than the average.

m Three out of nine cases in which the Day Ozone and the deaths were both less than the average, or both greater than the average.

m Seven out of nine cases in which the Day Ozone and the deaths were both less than the average, are both greater than the average.

n Seven out of nine cases in which the Day Ozone and the deaths were both less than the average, or both greater than the average.

• Four out of nine cases in which the Night Ozone and the deaths were both less than the average, or both greater than the average.

• Four out of nine cases in which the Night Ozone and the deaths were both less than the average, or both greater than the average.

• Four out of nine cases in which the Pressure of the Atmosphere and the deaths were both less than the average, or both greater than the average.

• Four out of nine cases in which the Pressure of the Atmosphere and the deaths were both less than the average, or both greater than the average.

EXHIBIT P.—PNEUMONIA.—Deaths returned as having occurred from Pneumonia, in Michigan during the Year 1880, and some coincident Meteorological conditions.

	MONTHS IN ORDER BY	Deaths from Pneumo- nia, 1880.		Temp ture Degr Fal	ecs	Hum Etc.	idity o	of Atm	osphere, rerages.	Ozon Relat Maxin	ive.	Miles per mometer.	Pahr.)
	NUMBER OF DEATHS FROM PNEUMONIA, GREATEST FIRST.		Per Cent, of Total.	Average Dally Range dur- ing Day and following Night, by Reg. Therm'r. Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M. 2 F. M., and 9 F. M.	Relative Humidity, or Per Cent. of Saturation.	Weight, in Grains, of Vapor in Cubic Foot of Air.	Weight, in Troy Ounces, of Vapor Inhaled by one per- son in 24 hours.a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled.	Day,-7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A. M.	Average Velocity of Wind, Miles per Hour, - by Registering Anemometer.	Average Pressure of Almosphere. (Barometer Reduced to 32° Fahr.)
Fear	r, 1880	b811	100,00	18,61	49.25	68	3.49	2,18	9,50	3.70	4.14	9.4	29.016
	April	113	13.93	e 20.63	47.50	59	2,76	1.73	9.95	4.28	4,93	13.8	28.916
No. of Deaths.	March	111	13.69	c 19.45	34.34	63	1.75	1.09	10 59	3.42	3 81	12,8	29.042
9 1	December	105	12,95	10.74	21.80	78	1.30	0.81	10,87	4.55	5.26	7.4	29,011
of I	February	82	10.11	18.17	31.60	58	1.74	1.09	10.59	4.38	4.97	12.7	28.973
No.	May	79	9.74	c 20,65	€ 66,03	60	4.76	4 2.98	8.70	3.81	4.32	10.4	29,002
2	November	68	8,35	15,33	29, 17	72	1.67	1.04	10.64	4.33	5,60	8.6	29.113
Ave	rage	67.6	8,34	19,61	49,25	68	3.49	2.18	9,56	3.70	4.14	9,4	29,016
	January	56	6,91	e 17.10	e 37.10	75	2,22	4 1.39	10,29	2,90	3,16	11.0	28,998
, A	September	51	6,29	21.17	61.71	69	4.72	2.95	8.73	3.73	3,60	8.1	29.058
eath	October	44	5.43	20,16	e 48.99	69	3.16	4 1.98	9.70	3,19	3.71	7.8	29,043
of D	June	37	4.56	c 18,43	69.79	67	5,60	3.50	8.18	3.53	3,87	8.3	28,983
No. of Deaths.	August	36	4.44	20.65	70.70	72	6,06	3,79	7.89	2.90	2.87	5.9	29,052
1	July	29	3,58	20.81	72.27	69	6,12	3.83	7.85	3.39	3,61	6.5	28,996

See foot-notes to Exhibit K, page 256.
 Excluding 1 in unknown month.
 Exceptions to the proposition that the Temperature was lower than the average in months when more than the average number of deaths from Pneumonia occurred, and vice versa.
 Exceptions to the proposition that less than an average amount of vapor was inhaled in months when more than the average number of deaths from Pneumonia occurred, and vice versa.

EXHIBIT 17.—PNEUMONIA.—By Months, the Number of Deaths Returned as having occurred from Pneumonia, in Michigan, during each of the Years 1871-1880, and the average for Ten Years ending with 1880.

<b>4</b> 7	T	DEATHS FROM PREUMONIA, 1871-1880.														
YEARS.	TOTALS.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.		
1871	441	41	50	64	41	27	18	17	19	38	28	84	63	1		
1872	641	48	64	75	79	58	28	26	81	29	56	63	89			
1873	706	84	110	80	58	65	55	20	29	84	87	65	68	1		
1874	800	49	57	108	141	108	46	29	32	46	39	50	93	•		
1875	745	85	116	128	88	78	36	21	17	31	42	41	65	1		
1876	627	48	71	107	68	50	38	20	87	28	88	40	91	1		
1877	465	58	56	64	60	39	24	14	23	26	- 26	85	88	1		
1578	462	36	37	59	54	87	80	15	19	22	85	53	65	ļ		
1879	701	44	92	114	102	59	36	80	31	42	25	45	80	i		
1880	812	56	82	111	113	79	37	29	36	51	44	68	105	1		
Average } for 10 y'rs }	640	54	74	91	. 80	59	34	. 22	27	35	87	49	76	1		

The number of deaths from pneumonia, by months, for each of the years 1871-1880 may be seen in Exhibit 17. There were more deaths in 1880 than for any of the previous years, and in Diagram No. 9, page 291, may be traced the lines representing the deaths from this disease for each of the years 1877, 1878, 1879, 1880, and the average for ten years. The line showing the deaths from pneumonia in 1880 is much higher throughout the year than the line representing the average for ten years.

Diagram No. 9.

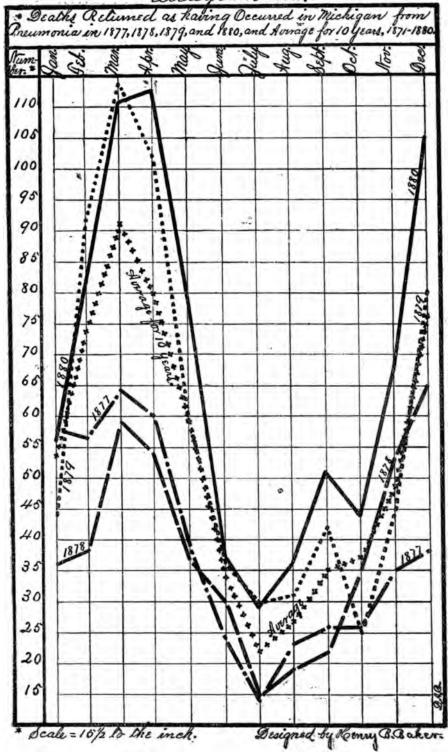
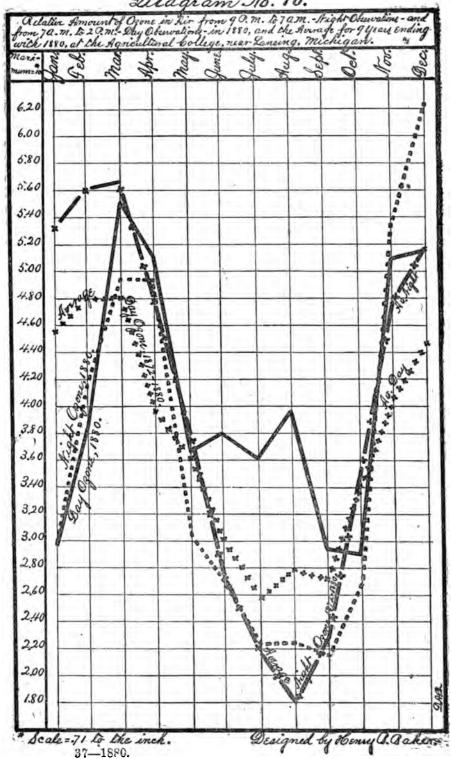


EXHIBIT 20—Relative Amount of Ozone in Air from 9 P. M. to 7 A. M.,—Night Observations,—by Months, during the Years 1872-1880, and the Average for 9 years ending with 1879; also, the Average for 9 years ending with 1880, from 7 A. M. to 2 P. M.,—Day Observations, at the Agricultural College, near Lansing, Michigan.

	. 5.2	Annual				Ozon	E OB	ERVA	rions,	BY M	ONTHE	<b>.</b> .		
YE	ARS.	Aver- age.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept	Oct.	Nov.	Dec.
	( 1872	2,92	4.50	4.00	8.00	2,63	2.14	1.91	.88	.98	1.40	1.93	4.60	5.81
	1873	4.02	5.06	4.21	4.09	3.76	4.58	3.26	8.59	8.55	2.80	4.52	4.30	4.97
	1874	4.10	5.10	5.53	5.00	5.70	5.90	8,50	1.80	2.80	2.90	3.82	3.80	4.00
•	1875	4.53	5.52	5.78	5.70	8.73	8, 19	3.96	3.52	3.50	4.30	5.80	4.90	5.00
Day	1876	3.68	5.32	5.76	6.06	3.70	8.10	1.87	2, 16	1.97	2.60	3.45	8.57	4.57
	1877	8.66	4.87	4.54	5.29	3.70	3.29	8.17	2.71	8,42	2,98	3.20	3.60	8,17
	1878	3.50	8.74	5.00	4.68	4.87	8.97	8.17	2.10	2.32	2.23	2.71	8.17	4.55
	1879	8.24	4.00	4.54	8.93	8.00	2.79	2.43	2.90	2.58	2.87	8.82	3.53	2.97
	1890	4.05	2.97	3.83	5.52	5.10	8.65	8.80	3,61	3,97	2,93	2,90	5.10	5.16
Av. for	years	8.73	4.56	4.80	4.81	8.97	8.61	8.01	2.58	2.79	2.72	8.41	4.06	4.47
	1872	4.24	5.44	6.00	5.71	5.30	8,84	8.23	2.28	.99	1.86	3.18	6.17	6.84
	1878	4.63	6.32	5.93	5.80	4.27	4.59	2.66	8.06	2.65	4.27	4.69	5.47	5.89
	1874	8.99	6,39	6.10	6.00	6.60	4.90	2.84	1.50	1.10	1.20	8.01	4.50	4.20
	1875	5,04	5.93	6.57	6. 19	8.96	4.03	3.66	3,22	8.70	3.68	6.20	6.60	6.70
Night	1876	4.11	6.90	7.27	7.00	5.53	4.13	2.27	1.58	1.26	1.78	3.48	3.33	4.81
	1877	3.33	5.03	4.14	6.06	4.27	2.94	2.90	1.77	1.03	1.58	3. 19	3.73	8.37
	1878	8.42	4.48	5.33	4.94	4.58	4.10	8.00	1.74	1.52	1.60	1.97	3.14	4.74
	1879	3.36	4.48	5.01	4,30	4.00	2.68	2.03	2.13	1.76	2.53	2.81	4.63	3.87
	1880	3.63	2,97	4.17	4.94	4.93	3.03	2.70	2. <b>2</b> 3	2.28	2.15	2.68	5.33	6,23
Av. for	9 years.	8.97	5.33	5.61	5.66	4,82	3.80	2,75	2 17	1.80	2.28	8.47	<b>4.77</b>	5,18

The relative amount of Ozone in the air for day and night observations may be seen in Exhibit 20 and Diagram No. 10. It may be seen that the observations of Ozone show a greater amount during the cold months of the year than in the warm months. This fact is clearly indicated by the rise and fall of the lines in Diagram No. 10.

Diagram No. 10.



# CORRELATION OF CONSUMPTION AND PNEUMONIA.

The evidence in regard to these two diseases tends to show that the conditions attending The opposite relations which seem to exist between deaths from Consumption and deaths from Pneumonia may be studied deaths from one disease are the opposite of those attending deaths from the other. in Tubles XXII. and XXIII.

TABLE XXII.—Correlation of Consumption and Preumonia.—Deaths Returned as having occurred from Consumption and Pneumonia, in Michigan, during the Year 1880, by Months, Exhibiting the Total Number, Number of each Sex, Per Cent. of Total, and Excess of each Sex.

			క	CONSUMPTION, 1880.	10N, 18	œ.					P	PREUMONIA, 1880.	1A, 1880.			
		Number.		or din	Per Cent.	it, of each Sex both Sexes	of each Sex to Total of both Sexes.	Total of		Number.		or dra	Per Cent	of each Sex	Per Cent. of each Sex to Total of both Sexes.	otal o
MONTHS, 1880.		ě		p Mo		é	Exc	Excess.		ei Pe		ow da	E	Ę.	Excess.	. 88
	Males.	males.	Total.	Per Cer in eac Total	Males.	males.	Males.	Fe- males.	Males.	males.	Total	Per Cer In eac Total	Males.	males.	Males.	Fe.
Year, 1880.	247	7.86	1,829	100.00	46.31	53.69		7.88	479	333	812	100.00	58.99	41.01	17.98	
January	57	12	22	2.00	44.63	55.47		10.94	8	83	26	06.90	58.93	41.07	17.86	•
February	200	2	b 125	6.83	41.80	55.30	•	10.40	٥ 49	88	P 83	10.10	59.78	40.24	19.52	۰
March	88	88	171	9.35	50.29	49.71	83.		ತ	7.7	==	13.67	57.68	42.34	15.32	_
April	28	83	159	8.69	47.80	52.20	۰	4.40	2	2	113	13,92	61.95	38.06	23.90	٠
May	7	P 81	152	8.31	46.71	63.29	ű	6.58	8	b 37	19	9,73	53.16	46.84	6.32	٠
June	28	8	121	6.62	45,45	24.55	v	9.10	8	11	82	4.56	24.05	45.95	8,10	۰
July	12 4	81	169	8.31	46.71	53.29		6.58	b 16	13	8	3.67	55, 17	44.83	10.34	v
August	69	26	151	8.26	45.70	64.30	v	8.60	22	71	8	4.43	6 11	38.80	22.23	۰
September	28	₽ 10 <del>6</del>	P 18f	10.06	42.39	197.0		15.22	88	۵ 18	P 61	6.28	64.71	85.29	29.43	•
October	8	88	128	2.00	46.58	63.13	٠	6.25	33	6	7	5.45	79.65	20.42	59.10	۰
November	92	8	174	9.51	50.57	49.43	1.14		9	83	28	8,37	58,82	41.18	17.64	
December		101	178	9.73	43.26	22.99	v	13.48	28	8	20	12.93	52.38	47.62	4.78	۰
Unknown	••	တ	9	.83	20.00	20.00				-	-	.13		100.00		100.00
Average	9	22	152	8.33					\$	33	2	8.33				

Excluding deaths in unknown month.
 Less than the average number of deaths from Consumption, and more than the average number from Pneumonin, and vice versa.
 Ten out of twelve months in which there was an excess of deaths of one sox from consumption and of the opposite sox from pneumonia.

TABLE XXIII,—Correlation of Consumption and Preumonia.—Exhibiting the Number and Per Cent. of Deaths

			COM	COMBUMPTION	_	1880.					PX	UMONIA,	IA, 1880	30.		
AGES IN PERIODS OF		NUMBER.		01 91	PER	CENT. 01	PER CENT. OF THE SEXES.	XX8.		NUMBER.		01 0	PER (	PER CENT. OF THE SEXES.	THE SE	CK8.
YEARS, 1880.		ć ja		cp ve		Ä	EXCESS.	#88.		5		ch Ag		46	Excres.	.00
	Males.	males.	Total.	Per Ct at eatl Deatl Ages.	Malcs.	males.	Malcs.	Fe. males.	Males.	males.	Total.	Per Ct at ead Deatl	Maica	males.	Malca.	Fo.
All Agos, 1850	847	9,60	1,829	100.00	46.31	83.68		7.38	479	333	812	100.00	68.90	41.01	17.98	
Under 5	8	19	126	6.89	51.60	48.41	3.18		187	17.	828	40,30	10.73	42.90	14.02	
5 to 10	15	•	21	1.15	71,48	28.57	42.86		81	17	2	4.80	56.41	43.50	12.82	-
10 to 15	31	ä	22	<b>8</b> 19	38,60	61.40	:	22.80	2	20	38	2.22	55.56	###	11.12	
15 to 20	#	20	b 178	b 9.73	24.72	75.28		20.56	ୟ	12	8	b 4.31	57.14	42.86	1.88	-
20 to 25	* 95	153	8 <b>17</b> 8	b 13.56	38.31	61.69	٠	23.38	a •	*	P 13	b 1.60	69.23	30.77	88.46	۰
25 to 30	8	131	b 216	b 11.81	39.35	80.83	:	21.30	9	23	23	b 2.83	43.48	56.52		13.04
30 to 35	17.	83	921 4	ъ 8.60	<b>46.54</b>	53.46		6 93	14	2	<b>8</b>	b 3.20	53.85	46.15	7.70	
35 to 40	11.	8	b 156	8.53	45.51	67.79		8.98	8	92	8	b 4.43	25.56	41.44	11.12	
40 to 45	3	5	b 119	b 6.51	54.62	45.38	9.24	·	11	81	88	b 3.94	43.75	54.25	v	12.50
45 to 50	97	70	8	27.9	46.00	24.00	٠	8.00	81	2	83	3.57	75.86	24.14	51.72	٥
50 to 55	3	88	88	4.54	54.22	45.78	8.44		2	80	81	3.57	72.41	27.59	44.82	
65 to 60	• 26	ឌ	28	4.87	62.92	37.08	25.84		. 27	7	3	4.19	79.41	20.59	58.83	
60 to 65	8	22	1	4.21	<b>8.3</b>	35.06	88. 88.		1 27	33	9	4.93	67.50	32.50	8.8	!
65 to 70	45	ន	8	4.37	56.25	43.76	12.50		2	<b>s</b> o	27	<b>8</b> 83	70.37	29.63	40.74	
70 to 75	92	=	ь 37	b 2.02	70.27	29.73	40.54		ន	72	9	₽ 6.0 <u>4</u>	51.02	48.98	2.04	!
75 to 80	<b>5</b> 8	11	<b>5</b>	2.85	60.47	89.58	20.94		92	8	<b>5</b> 2	3,08	8. 8.	88.00	8.8	-
80 and over	10	6	=	11.	35.71	2 8	•	28.58	=	6	8	2.46	85.00	42.00	90.00	٠
Unknown	12	7	<b>3</b> 8	1.42	46.15	58.83	٠	7.70	10	4	6	1.11	55.56	11.11	11.19	
				_												

More than the average number of deaths of males from Consumption, and less than the average number of deaths of males from Pneumonia, and wice versa.
 More than an average number and per cent, of deaths from Consumption and less than an average number and per cent, of deaths from Pneumonia, and wice versa.
 More than an average proportion of males from Consumption and less than an average proportion of males from Pneumonia, and wice versa.
 4 Of 17 periods of 6 years each, unknown ages excluded.

TABLE XXIV.—Exhibiting, for the State and Eleven Geographical Divisions in 1880, by Sex, the Number of Deaths Returned as having occurred from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea; also, the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.

STATE			Cons		Pneui	CONIA.	TYP: Fev	HOID ER.	INTER TER FEV	T I	DIARE	HI EA.
AND GEOGRAPHICAL DIVISIONS. •	SEX.	All Causes, 1880.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from
ſ	Total	16,102	1,829	11.36	812	5 04	518	8.19	82	.20	810	1.9
	Males	8,645	847	9.80	479	5.54	285	8.80	16	.19	186	2.1
}TATEb}	Females.	7,410	982	13.25	838	4.49	228	3.08	16	.22	124	1.0
ί	Unk'n	47										••••
(	Total	1,013	82	8.09	45	4.44	65	6.42	2	.20	22	2.1
	Males	606	48	7.10	82	5.28	51	8.42	1	.17	18	2.
Upper-peninsular	Females.	406	39	9.61	13	3.20	14	8.45	1	.25	9	2,
1	Unk'n	1	•									
(	Total	389	44	11.31	18	4.63	8	.77	1	.26	5	1.
North-western	Males	200	18	9.00	12	6.00	8	1.50		•	2	1.
MOLETI-M CREGLTT	Females.	185	26	14.05	6	8.24			1	.54	3	1.
į	Unk'n	4			·····				•••••			
1	Total	239	28	11.72	12	5.02	6	2.51	1	.42	3	1.
Northern	Males	140	15	10.71	7	5.00	2	1.43	1	.71	2	1.
i	Females.	99	13	13.13	5	5.05	4	4.04			1	l.
!	Total	160	12	7.50	5	3.13	1	.63	8	1.88	12	7.
North-eastern	Males	82	8	9.76	4	4.88			1	1.22	7	8.
NOT THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONSTITUTE OF THE CONS	Females.	77	4	5.19	1	1.80	1	1.30	2	2,60	5	6.
İ	Unk'n	1								<b></b> -		ļ
	Total	2,075	212	10.22	98	4.72	63	3.04	5	.24	81	1,
Western	Males	1,103	102	9.25	56	5.08	32	2.90	2	.18	18	3.
W CBCCI II	Females.	969	110	11,35	42	4.33	81	8.20	3	.81	13	1.
	(Unk'n	3					ļ					
	Total	508	35	6.89	)8	8.54	16	8.15		<b> </b>	4	.
Northern-central	Males	278	17	6.12	11	8.96	12	4.82			2	٠
T. A. PHALM-CORFERNITE	Females.	. 228	18	7.89	7	8,07	4	1.75			2	•
	Unk'n	. 2		l								

[•] For counties included in each Division, see page 166.
• For counties and townships from which no returns of deaths for 1880 were received, see Exhibit H, page 186; for those in which no deaths occurred, see Exhibit I, page 188.

TABLE XXIV .- CONTINUED.

			Cons		PNEUI	IONIA.	TYP! Fev		INTE	NT	DIARI	RH BA.
GEOGRAPHICAL DIVISIONS.	SEX.	All Causes, 1880.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.
. (	Total	2,401	266	11.08	150	6.25	62	2.58	4	.17	40	1.67
	Males	1,291	122	9.45	90	6.97	31	2,40	8	.23	26	2.01
Bay and Eastern {	Females.	1,098	144	13.11	60	5.47	31	2.82	1	.09	14	1.28
į	Unk'n	12									<b></b>	
(	Total	2,392	256	10.70	89	8.72	98	3.89	1	.04	24	1.00
	Males	1,195	108	9.04	57	4.77	46	8.85	1	.08	18	1.09
Central	Females.	1,188	148	12.46	32	2.69	47	8,96			11	.93
	Unk'n	9								<b> </b> -	ļ	
(	Total	1,018	121	11,89	83	8.15	42	4.13	,	.10	13	1.28
<b>4</b>	Males	557	56	10.05	42	7.54	21	8.77	1	.18	•	1.62
South-western	Females.	460	65	14.10	41	8.91	21	4.57			4	.87
	Unk'n	1	ļ					<b> </b>				i
	Total	2,524	320	12.68	150	5.90	97	3.84	4	.16	19	.75
	Males	1,824	129	9.74	81	6, 12	60	4.53	3	.23	16	1.21
Southern-central	Females.	1,190	191	16.05	69	5.80	37	8.11	1	.08	8	.25
	Unk'n	10		ļ		<b> </b> -		<b></b> -				
:	Total	3,383	453	13.39	144	4,26	65	1.92	10	.80	137	4.05
	Males	1,869	229	12.25	87	4.65	27	1.44	8	.16	78	4.17
South-eastern	Females.	1,510	224	14.83	57	3.77	38	2.52	7	.46	59	8.91
1	Unk'n	4									<b> </b>	

[•] For counties included in each Division, see page 166.

TABLE XXV.—Exhibiting, for the State, and by Counties, for the Year 1880, the Number of Deaths from All Causes, from Consumption, Pneumonia. Typhoid Fever, Intermittent Fever, and Diarrhea; also the Per Cent. of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.

		Consul	OPTION.	PNEUI	MONIA.	Ттрноп	Fever.	Int'm'n	FEVER.	DIA	RRHEA.
STATE AND COUNTIES.	All Causes, 1880.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	of	Per Cent. to Deaths from All Causes.	Num- ber of Dea's,	Per Cent. to Deaths from All Causes.
State	16,102	1,829	11.36	812	5.04	513	3.19	32	.20	810	1.93
Alcona	12										
Allegan	810	42	13.55	29	9.35	13	4.19	1	.82	10	8.23
Alpena	67	4	5.97	3	4.48		••••			9	18.43
Antrim	40	4	10.00	3	7.50	1	2.50				
Baraga	14	1	7.14	1	7.14	2	14.29				
Barry	218	27	12,89	8	3.67	7	8.21			5	2.29
Вау	393	32	8.14	17	4.83	11	2.80	1	.25	3	2.04
Benzie	47	5	10.64	1	2.13	נו	2.13				
Berrien	834	37	11.18	25	7.49	9	2.69			1	.30
Branch	252	27	10.71	15	5.95	13	5.16	<b></b>			
Calhoun	861	51	14.12	18	4,99	18	4,99				
Cass	163	20	12,27	11	6.75	8	4.91		<b></b>	1	.61
Charlevolx	41	9	21.95	4	9.76				<b></b>	<b></b>	
Cheboygan.	50	2	4.00	1	2.00	1	2,00			1	2.00
Chippewa	29	5	17.24								
Clare	69			1	1.45	2	2,90			1	1.45
Clinton	191	16	8.38	8	4.19	15	7.85				
Crawford	4									3	25.00
Delta	60	6	10.00	1	1.67	5	8,33	2	8.33	5	8.83
Eaton	275	31	11.27	18	6,55	13	4.73				
Emmet	82	12	14.63	2	2.44	4	4.88	1	1.22	1	1.22
Genesee	326	40	12,27	11	3.57	4	1.23			4	1.23
Gladwin	7							<b>.</b>			
G. Traverse	42	8	19.05	4	9.52					1	2.38
Gratiot	154	10	6.49	9	5.84	4	2.60				<b></b>
Hillsdale	248	41	16.53	8	8.22	8	3.23	1	.40		
Houghton	298	24	8.05	14	4.70	7	2.35			2	.67
Huron	160	13	8.13	11	6.88	6	8.75			5	8.13
Ingham	245	81	12.65	10	4,08	13	5,31			8	1.22
Ionia	287	32	11.15	13	4.53	13	4.58	1	.35	1	.35
Iosco	39	2	5.13		l	1	2.56	3	7.69	2	5.13
Isabella	166	18	10,84	8	4.82	5	3.01	l			<b> </b>
Isle Royal.b	l	l							l	l	
Jackson	326	44	13.50	22	6.75	7	2.15		l	1	.31
Kalamazoo	382	45	11.78	25	6.54	11	2.88		1	4	1.05
Kalkaska	17	1	5.88	1	5.83	l				I	
Kent	845	103	12,19	42	4.97	16	1.89	1	.12	14	1.66
Keweenaw.	72	1	1.39	2	2.78	3	4.17	ļ <u>.</u>			
Lake	26	li	3.83			3	1.15				l
Lapeer	239	26	10.88	80	12,55	9	3.77			6	2.51
Leelanaw	97	12	12.37	3	8.09	1	1.03	1	1.08	2	2.06
Lenawee	870	37	10.00	17	4.59	15	4.05	İ		1	1.08
	1 5.0	1 "	1 .0.50	·	1 1.00	1 .0	1	1	1		

a For townships not represented by returns of deaths in 1880, see Exhibit H, page 186. b No returns from county clerk to State Department.

TABLE XXV.—Continued.

		Consus	PTION.	PNEU	MONIA.	Ттрноп	FEVER.	Int'm'n	r Fever.	DIAI	RRHEA.
COUNTIES.	All Causes, 1880.	of	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	of	Per Cent. to Deaths from All Causes.	Number of Deaths.	Per Cent. to Deaths from All Causes.	ber of	Per Cent. to Deaths from All Causes.
Livingston	169	24	14.20	6	8,55	4	2.37	•••••		1	,59
Mackinac	33	6	18, 18	1	8.03						
Macomb	256	40	15.63	18	7.03	5	1.95	2	.78	12	4.69
Manistee	92	8	8,70	5	5.43						
Manitou	11	1	9.09		İ		i			2	18.18
Marquette.*	834	83	9.88	17	5.09	21	6,29			9	2.69
Mason	97	9	9,28	5	5.15	1	1.03			1	1.03
Mecosta	156	8	5.13	1	.64	7	4.49			1	.64
Menominee.	127	5	8.94	7	5.51	27	21.26			6	4.72
Midland	94	9	9.57	6	6,38	1	1.06				
Missaukee	11	1	9,09		<b> </b>			<b></b>			
Monroe	360	31	8.61	19	5.28	17	4.72			3	.83
Montcalm	319	30	9.40	3	.94	14	4,39	<b></b> .		7	2.19
Muskegon	288	27	9.38	12	4.17	8	2.78	1	.35	2	.69
Newaygo	168	9	5.36	y	5.36	6	8.57	2	1.19	2	1.19
Oakland	830	55	16.67	14	4.24	11	8.33	2	.61	2	.61
Oceana	131	18	13.74	1 1	.76	1	.76	l	l	1	.76
Ogemaw	16	4	25.00	2	12.50				l		! 
Ontonagon	49	1	2.50	1	2,50						
Osceola	166	6	3,61	8	4.82	19	11.45		<u></u>	1	.60
Oscoda	2							 			! <b></b> -
Otsego	5			1	20.00						
Ottawa	854	89	11.02	21	5.93	9	2.54	1	.28	10	2.82
Presque Isle	24	2	8.33							1	8.33
Roscommen	16	l		2	12.50	1	6.25			2	12.50
Saginaw	783	98	12.52	39	4.98	18	2.30			13	1.66
Sanilac	206	30	14.56	10	4.85	5	2.43			3	1.46
Schoolcraft.	6			1	16.67	l					İ
Shiawassec.	208	15	7.21	8	1.44	6	2.83			3	1.44
St. Clair	414	41	9.90	28	6.76	6	1.45			4	.97
St. Joseph	244	35	14,34	18	7.38	12	4.92	2	.82	3	1.23
Tuscola	206	26	12.62	15	7.28	7	3.40	3	1.46	1	.49
Van Buren	211	22	10.43	18	8.53	12	5,69			1	.47
Washtenaw.	841	40	11.73	27	7.92	13	3.81	1	.29	7	2,05
11 WOTH CHUM.			13.42	93	3.82	32	1.31	6	.25	120	4.92
Wayne	2,437	327									

a For townships not represented by returns of deaths in 1880, see Exhibit H, page 136.

TABLE XXVI — Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5; also the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages, during the Year 1880.

			OLD	AGE.		70 AND ER.	AGED U	NDER 5.
STATE AND GEOGRAPHICAL DIVISIONS.4	SEX.	Deaths at All Ages, 1880.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.
	Total	16,102	625	3.88	1,718	10.67	6,483	39,95
STATEb	Males	8,645	317	8,67	990	11.45	3,519	40.71
DTATE	Females	7,410	308	4.16	728	9,82	2,872	38.76
1	Unknown	47					42	89.36
:	Total	1,018	6	.59	25	2.47	553	54.59
	Males	606	4	.66	14	2.31	304	50,17
Upper-peniusular	Females	406	2	.49	11	2.71	248	61.08
	Unknown	1					1	100.00
	Total	389	10	2.57	25	6.43	184	47.30
	Males	200	6	8.00	16	8,00	90	45.06
North-western	Females	185	4	2.16	9	4.86	90	48,65
·	Unknown	4					4	100,00
	Total	239	9	8.77	13	5.44	143	59.88
Northern	Males	140	2	1.48	.5	3,57	93	66.43
	Females	99	7	7.07	8	8,08	50	50.5
	Total	160			4	2,50	91	56.88
N	Males	82			3	3,66	45	54.88
North-eastern	Females	77			1	1.30	45	58.44
	Unknown	1					1	100.00
	Total	2,075	65	8,18	158	7.61	843	40.63
Westown	Males	1,103	83	2.99	89	8,07	443	40.10
Western	Females	969	82	3.80	69	7.12	397	40,97
	Unknown	. 8					3	100.00

[•] For countles included in each Division, see page 186.

• For countles and townships from which no returns of deaths in 1880 were received, see Exhibit H, page 188; for those in which no deaths occurred, see Exhibit I, page 188.

# TABLE XXVI.—CONTINUED.

			OLD	AGE.		70 AND	AGED U	NDER 5.
GEOGRAPHICAL DIVISIONS.*	SEX.	Deaths at All Ages, 1880.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent. to Deaths at All Ages, by Geo- graphical Divisions.
	Total	508	12	2,36	30	5.91	199	39.17
and the second second	Males	278	7	2,52	20	7.19	109	39,21
Northern-central	Females	228	5	2.19	10	4.39	90	39.47
	Unknown	2						
	Total	2,401	79	3.29	180	7.50	1,088	45.31
and the second	Males	1,291	40	3, 10	98	7.59	602	46,63
Bay and Eastern	Females	1,098	39	3.55	82	7.47	476	43,33
	Unknown	12					10	83.33
	[Total	2,392	102	4.26	307	12.83	835	34.91
Charles 1	Males	1,195	49	4.10	166	13,89	439	36.74
Central	Females	1,198	53	4.46	141	11.87	387	32 58
	Unknown	9					9	100,00
	[Total	1,018	36	3.54	132	12.97	386	37.99
South-western	Males	557	16	2.87	81	14.54	210	37.70
South-western	Females	460	20	4.35	51	11.09	175	38,04
	Unknown	1					1	100.00
	Total	2,524	167	6.62	493	19,53	683	27.00
Southern-central	Males	1,324	96	7.25	292	22,05	362	27.3
Southern-central	Females	1,190	71	5,97	201	16.89	312	26.25
	Unknown	10					9	90.0
	Total	3,383	139	4.11	351	10.35	1,428	42,2
South-eastern	Males	1,869	64	3.42	206	11.02	822	43.9
South-castern	Females	1,510	75	4.97	145	9.60	602	39,8
	Unknown	4					4	100,0

TABLE XXVII.—Exhibiting, for the State and Counties of Michigan, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5; also the Per Cent. of Deaths from Old Age, of All Aged 70 and Over, and of All Aged under 5, to Deaths at All Ages, for the Year 1880.

	ALI. AGES.	ОГР	Age.	AGED 70	AND OVER.	AGED (	JNDER 5.
STATE AND COUNTIES.	Number	Number	Per Ct.	Number	Per Ct. to Deaths	Number of	Per Ct. to Deaths
	Deaths.	Deaths.	at All Ages.	Deaths.	All Ages.	Deaths.	All Ages.
STATE	16,102	625	3,59	1,718	10.67	6,433	39,95
Alcons	12					4	83.38
Allegan	310	22	7.10	45	14.52	126	40.65
Alpena	67			2	2.99	44	65.67
Antrim	40			3	7.50	20	50.00
Baraga	14	l	İ	<b> </b>	1	8	57.14
Barry	218	17	7.80	80	18.76	72	33.03
Bay	393	7	1.78	13	8.31	223	56.74
Benzie	47			4	8.51	22	46.81
Berrien	334	5	1.50	'42	12.57	138	41.82
Branch	252	6	2.38	41	16.27	70	27.78
	361	23	6.37	58	16.07	92	25.48
Calhoun	163	3	1.84	20	12.27	46	28.22
Cass	1 41	4	9.76	1 4	9.76	21	51.22
	50	3	6.00		8.00	26	52.00
Cheboygan	29	1		2		17	58.62
Chippewa		,	3.45	2	6.90	21	80.48
Clare	69				2,90	63	
C inton	191	1	.52	19	9.95		32,98
Crawford	4					1	25.00
Delta	60			1	1.67	28	46.67
Eaton	275	13	4,73	41	14.91	101	36.78
Emmet	83	1	1.22	1	1.22	62	76.10
Genesco	326	14	4.29	44	13.50	103	31.60
Gladwin	7			1	14.29	5	71.43
Grand Traverse	42	] ]	2.38	2	4.76	11	26, 19
Gratiot	154	6	3.90	15	9.74	50	32.47
Hillsdale	248	22	8.87	65	26.21	57	22.98
Houghton,	298	1	.31	7	2.35	199	66.78
Huron	160	4	2.50	10	6.25	<b>S7</b>	54.38
Ingham	245	9	3.67	29	11.54	80	32.65
Ionia	267	9	3.14	46	16.03	94	32.75
Iosco	39				ļ	23	58.97
Isabella	166	5	8.01	9	5.42	72	43.88
Isle Royal					<b></b> .		
Jackson	326	17	5.21	55	16.87	115	35,28
Kalamazoo	382	36	9.42	60	15.71	97	25,39
Kalkaska	17	1	5.88	i	5.88	8	47.06
Kent	845	32	3,79	76	8,99	320	37.87
Keweenaw	72	1	1.39	5	6.94	47	65.28
Lake	26	8	11.54	2	7.69	15	57.69
Lapeer	239	1 11	4.60	97	11.30	100	41.84
raheer	2.10	,,,	1 1.00	**	11.00	100	41.08

# CAUSES OF DEATH,—OLD AGE, ETC.

### TABLE XXVII.—Continued.

	ALL Agrs.	Ord	AGE.	AGED 70	ND OVER.	Aerd (	Inder 5.
COUNTIES.	Number	Number	Per Ct.	Number	Per Ct.	Number	Per Ct.
	of Deaths.	of Deaths.	at All Ages.	of Deaths.	at All Ages.	of Deaths.	at All Ages
Leelanaw	97	8	3.09	8	8.25	41	42.9
Lenawee	870	23	6,22	76	20.54	104	28.1
Livingston	169	11	6.51	84	20,12	54	31,9
Mackinac	83	2	6.06	8	9.09	11	33.8
Macomb	256	15	5.86	54	21.09	86	33.5
Manistee	92	1	1.09	4	4.85	50	54.8
Manitou	11	2	18,18	2	18,18	4	36.8
Marquette	834	1	.30	5	1.50	176	52,6
Mason	97	3	3.09	4	4.12	36	87.1
Mecosta	156	4	2.56	8	5.13	56	85,9
Menominee	127		<b> </b>		<b></b>	45	35.4
Midland	94	3	8.19	10	10.64	34	36.1
Missaukee	11	1	9.09	1	9,09	5	45.4
Monroe	360	13	3.61	42	11.67	123	84.
Montcalm	319	9	2.82	25	7.84	143	44.8
Muskegon	298	4	1.89	8	2,78	145	50.5
Newaygo	168	111	6.55	22	18,10	61	36.3
Oakland	330	15	4.55	56	16.97	75	22.7
Oceana	131	1	.76	9	6.87	48	36.0
Ogemaw	16			1	6,25	5	81.5
Ontonagon	40			2	5.00	21	52.
Osceola	166	2	1.20	4	2.41	67	40.
Oscoda	2	l		ī	50.00	1	50.0
Otsego	5					5	100.0
Ottawa	354	9	2.54	33	9.32	151	42.6
Presque Isle	24					14	58.8
Roscommon	16					11	68.7
Saginaw	783	25	3, 19	49	6.26	329	42.0
Sanilac	206	7	3.40	19	9.22	94	48.5
Schoolcraft	6					1	16.6
Shiawassee	208	13	6.25	24	11.54	75	36.0
St. Clair	414	17	4.11	39	9.42	170	41.0
St. Joseph	244	16	6,56	43	17.62	58	23.7
ruscola	206	8	3.88	23	11.17	85	41.5
Van Buren	211	6	2.84	25	11.85	76	36.0
Washtenaw	341	24	7.04	95	2,79	90	26.8
Wayne	2,437	96	3,94	199	8.17	1.144	46.9
Wexford	89	2	2.25	1	4.49	51	57.8

TABLE XXVIII.—CONSUMPTION.—Exhibiting, for the Year and Months, by Sex, The Conjugal Condition, Occupation, and Age in Periods of Years of All Persons Returned as having Died from Consumption in Michigan during the Year ending December 31, 1880.

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CONJUGAL SEX AND CONDITION. OCCUPATION	- Lei	Married Total DEATHS	Single	144 Widowed.   Consumption.	43 Unknown.	al	600 Married	gle	Widowed.	18 Unknown.	al	133 Married	gle	Widowed.	25 Unknown.	al	ried Occupations	gle   Unknown,	Total Marie Company
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_		Occupations	Vnknown,	Females.			Occupations	Unknown,	M			All Specified	Occupations,	Ŧ			wit specimen	Total basing	Cless WII)			All Specified	Occupations,		(Classes L-AL.)
Unknown.   J	Total				Unknown.	Total	_			Unknown.	Total				Unknown.	<u>-</u>	_		_	_	_	_		Widowed	
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1 80 Unknown.   J	1 148 Total				14 Unknown.	1 88 Total	_			1 16 Unknown.	4 1,593 Total					<u>-</u>	_		_	4 Unknown.	_	_		47 Widowed	g Unknown.
_	22 1 148 Total )	57 Married				11 1 88 Total	_	48 Single		6 1 16 Unknown.	145 4 1,393 Total	855 Married			13 Unknown.	834 Total	_		86 Widowed	_	759 Total	412 Married		Widowed	
_	H	57 Married	69 Single }			5 11 1 88 Total )	_	48 Single		-	*	855 Married		133 Widowed		834 Total	_	1 301 Single	86 Widowed	4 Unknown.	2 730 Total)	2 412 Married	291 Single	47 Widowed	Unknown.
_	H	57 Married	69 Single }			8 5 11 1 88 Total	_	48 Single		-	145 4	855 Married		133 Widowed		834 Total	_	28 1 301 Single	86 Widowed	4 Unknown.	66 2 759 Total)	2 412 Married	23 291 Single	47 Widowed	Unknown.
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_	17 22 1	57 Married	69 Single }			8 5 11 1	_	2 3 48 Single 5		1 1 1 6 1	10 152 145 4	855 Married		133 Widowed		5× 69 79 2 834 Total	28 36 44 1 443 Married	23 22 28 1 301 Stingle	86 Widowed	1 4 Unknown.	52 83 66 2 750 Total	2 412 Married	14 27 23 291 Single	47 Widowed	Ouknown.
_	8 10 17 22 1	57 Married	69 Single }			8 8 5 11 1	_	4 5 2 3 48 Single		-	168 10 152 145 4	855 Married		133 Widowed		5× 69 79 2 834 Total	28 36 44 1 443 Married	50 23 22 28 1 301 Single	86 Widowed	1 4 Unknown.	52 83 66 2 750 Total	2 412 Married	14 27 23 291 Single	47 Widowed	Ouknown.
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TABLE XXVIII.—Continued.—Deaths from Consumption, 1880.

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	SEX AND OCCUPATION.	_	CLASS I	Cultivators of	the Earth.		_	CLASS II.	Active Mechan-	ics Abroad.		-	Acting Mochan	Active	l tes in suops	_	CLASS IV.	Inactive Mechan-	lcs in Shops.	_	CLABS V.	I Cabouage Wo
	CONDITION.	274 Total	185 Married	72 Single	Widowed.	3 Unknown.	16 Total	rried	14 Single	Widowed	Unknown.	tal	88 Married	le	wed.		ied		wed.	al	ried	
	YEAR, 1880.					D	£	Ma	Sin	Wid	Cuk	£	M	Sing	Wide	Tota	Marr	Singl	Wido	Tot	Mar	Sing
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- 1	Десемрет. Паквочт	25 274	16	7 72	01	3 0	5 46 To	3 26 Ma	14 Sin	1 4 Wid	- 2 Unk	6 58 To	4 88 Ms	2 14 Sing	6 Wide	2 87 Tota	2 23 Marr	12 Singl	2 Wido	13 118 Tot	5 60 Mar	6 Al Sing
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Special Trades. CLASS VI. Agents, Labor. crs Abroad, etc.	CLASS VII.	Scafaring Men.		CLASS VIII.	Soldiers.	CLASS IX.	Business Men.		CLASS X.	Professional	Men.		, and a 2	CLASS AL.	a proyect.		CLASS I.
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Widowed   Spec   Unknown     Unknown	7 Total		2 Unknown.		<u></u>		<u></u>	5 Widowed	_		9 Single ]	7 Total	6 Married		9 Widowed.	1 Unknown.	
13 Widowed 13 Unknown 29 Total 27 Married 11 Single 1 Widowed			2 Unknown.	CEA	<u></u>	% Married CL	23 Single Busir	5 Widowed	21 Total CL	12 Married   Prof		97 Total		88 Single	<u> </u>	1 Unknown.	274 Cr
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	7 Total	4 Single	:	<u>~</u>		1 62 Total	23 Single		21 Total	12 Married	9 Single		6 Married	88 Single	. g Widowed.	-:	1 274
C1	1 7 Total	4 Single	:	<u>~</u>		6 1 % Married	2 23 Single		3 1 21 Total	12 Married	9 Single	, ,	6 Married	8 88 Single	1 2 Widowed.	-:	25 1 274
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TABLE XXVIII.—Continued.—Deaths from Consumption, 1880.

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TABLE XXVIII.-Continued.-Deaths from Consumption, 1880.

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TABLE XXVIII.—Continued.—Deaths from Consumption, 1880.

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TABLE XXVIII.—Continued.—Deaths from Consumption, 1880.

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			Total		Single		Widowed	Unknown.		Total	Married	Single	Widowed.	<u>~~</u>	Married	Single	Married B	Widowed Bas	Total	Married	
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EXHIBIT Q.—The Average Age of the Inhabitants of Michigan, of both Sexes, of each Sex, and the difference between the Sexes, for All Living June 1, 1870, and All Returned as having Died during the Year ending June 1, 1870, as Compiled from the U. S. Census of that date; for All Returned as having Died from Consumption during the Years 1870 to 1880, inclusive, for all returned as having died from All Causes during the years 1870 to 1880, inclusive; as shown by the Registration Returns; for All Living Aged 20 and Over as per Census June 1, 1870; for All Aged 20 and Over whose Ages and Occupations were stated in the Registration Returns of Deaths for the Years 1870 to 1880, inclusive, and for the Native and Foreign-born Inhabitants Returned as having Died during the Years 1873 to 1880 inclusive.

	YEAR		AVERAGE AGE HUNDREDTE		
	Ending:	Total.	Males,	Fe- males,	Excess, Males.
Deaths, as per CensusLiving, as per Census	June 1, 1870.	24.79 24.32 38,23	25.17 24,91 38,61	24.39 23.68 37.80	1.22 .81
Deaths, as shown by Registration Returns Deaths from Consumption, by Registration Returns	1 1	23,50 34,95	24.05 36.89		1.16 3.78
All aged 20 and over whose occupations were stated in Registration Returns of Deaths "Average years of life "after the age of 20 years, as shown by Table VII., page 197, Report for 1872, plus 20 years,—indicating the "Average Age at Death" of all who died aged 20 years and over according to that		51.01	52.45	45.96	6.49
Life Table	) (		63,72	62,02	1.70
Deaths, as shown by Registration Returns	Dec. 81, 1871.	25.63 51.44	26.78 52.79	100	6.34
Deaths, as shown by Registration Returns	,	24.17	25,09	1	1.95
Deaths from Consumption, by Registration Returns All aged 20 and over whose occupations were stated in		85.05	39,10		7.9
Registration Returns of DeathsAll who died aged 20 years and over, as shown by Regis-	Dec. 31, 1872.	50.73	51,90	47.08	4.8
tration Returns	1	49,72	51.67	47.42	4.22
Deaths, as shown by Registration Returns	1 1	31.20	31.95	30.14	1.81
Deaths of Native-born Inhabitants, as shown by Regis- tration Returns.		27.25	27.76	26,71	1,05
tration Returns  Deaths from Consumption, by Registration Returns	Dec. 31, 1873.	43.87 37.81	40,68 40,20	42.35 35.77	-1.67 4.43
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	11 1	50.17	56.51	48.27	8,24
All who died aged 20 years and over, as shown by Registration Returns	) (	49,87	51.48	47.66	3,89
Deaths, as shown by Registration Returns	1 1	25.33	25.78	24.09	.81
Deaths of Native-born Inhabitants, as shown by Regis- tration Returns		20,26	23,99	20.25	3.74
Deaths from Consumption, by Registration Returns	Dec. 31, 1874.	47.15 36.48	47.99 39.90	46.13 33.44	1.86 6.46
All aged 20 and over whose occupations were stated in Registration Returns of Deaths		50.77	52.70	48,23	4.47
All who died aged 20 years and over, as shown by Regis- tration Returns		50,89	52.84	48.72	4.19
Deaths, as shown by Registration Returns	1 (	25.32	26.31	24.36	1,95
Deaths of Native-born Inhabitants, as shown by Regis- tration Returns. Deaths of Foreign-born Inhabitants, as shown by Regis.	1	20.17	20.73	19,88	.85
tration Returns		46.90	48.68	44.49	4.19
Deaths from Consumption, by Registration Returns All aged 20 and over, whose Occupations were stated in	Dec. 31, 1875.	35,77	38, 19	33.58	4.61
Registration Returns of Deaths	- 201 411 15141	51.07	53.29	47.87	5.49
tration Returns Deaths of Native-born Inhabitants aged 20 years and		50.65	52,79	48,06	4.78
over, as shown by Registration Returns Deaths of Foreign-born Inhabitants aged 20 years and		50.68	53,86	47.61	6,25
over, as shown by Registration Returns	) (	50.77	52.37	48,54	3,83

# EXHIBIT Q.—Continued.

·	YEAR		GE AG		ABS AND YEAR.
	Ending:	Total.	Males.	Fe- males.	Excess, Males.
Deaths, as shown by Registration Returns	7	25,83	26.79	25.04	1.75
tration Returns	!	20.86	21.34	20.60	.74
Deaths from Consumption, by Registration Returns		47.83 85.70	48.91 40.20	46.68 88.40	2.23 6.80
All aged 20 and over whose occupations were stated in Registration Returns of DeathsAll who died aged 20 years and over, as shown by Regis-	} Dec. 31, 1876. {	51.93	54.00	49.89	4.11
tration Returns		51.94	.53.91	49.88	4.08
over, as shown by Registration Returns	i i	51.09	54.46	48,92	5.54
over, as shown by Registration Returns	J i	52.25	53.70	51.96	1.74
Deaths, as shown by Registration Returns Deaths of Native-born Inhabitants, as shown by Regis-	[] [	25.89	26,44	25.44	1.00
tration Returns  Deaths of Foreign-born Inhabitants, as shown by Regis-	11 1	20.30	20.22	20.57	85
tration Returns  Deaths from Consumption, by Registration Returns		49.31 36.34	50.31 89.42	48,00 83,94	2.34 5.48
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 31, 1877.	51.71	53.89	49.55	4.84
All who died agod 20 years and over, as shown by Regis- tration Returns	[] [	51.89	54.03	49.65	4.38
over, as shown by Registration Returns		51.25	54. 13	48.43	5.70-
Deaths of Foreign-born Inhabitants aged 20 years and over, as shown by Registration Returns	[] {	53.01	58,95	51.78	2.17
Deaths as shown by Registration Returns.	j i	26.41	26,99	25.99	1.00-
Deaths of Native-born Inhabitants, as shown by Registration Returns.		20.74	21.20	21.10	.10
Deaths of Foreign born Inhabitants, as shown by Regis- tration Returns.  Deaths from Consumption, by Registration Returns	[]	49.75 36.67	50.96 40.95	48.85 33.25	2.11 7.70
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	Dec. 31, 1878.	52,45	54.21	50.41	3.80
All who died aged 20 years and over, as shown by Registration Returns		52,40	54.17	50,57	3.60
Deaths of Native-born Inhabitants aged 20 years and over, as shown by Registration Returns	li i	51.01	54.20	49.57	4.68
Deaths of Foreign born Inhabitants aged 20 years and over, as shown by Registration Returns	}	53.84	54.88	58,15	1.78
Deaths as shown by Registration Returns	) ı	25.76	26.31	25.28	1.03
Deaths of Native-born Inhabitants, as shown by Registration Returns.		20.07	19.94	20.32	38
Deaths of Foreign-born Inhabitants, as shown by Reg- istration Returns		49.55 85.99	49,21 39,30	47.17 88.12	2.04 6.18
All Aged 20 and over whose occupations were stated in Registration Returns of Deaths.	Dec. 31, 1879.	52,29	54.78	49.42	5.31
All who died aged 20 years and over, as shown by Registration Returns.		52.46	54.67	50.05	4.62
Deaths of Native-born Inhabitants aged 20 years and over, as shown by Registration Returns	li i	51.24	54.19	48,43	5.76
Deaths of Foreign-born Inhabitants aged 20 years and over, as shown by Registration Returns	} {	54.28	52.78	52.86	10
Deaths, as shown by Registration Returns	1	25,45	26.06	24.88	1.18
Deaths of Native-born Inhabitants, as shown by Registration Returns		19.74	19.73	19.80	16
Deaths of Foreign-born Inhabitants, as shown by Reg- istration Returns		47.72	48.93	45.04	3.89
Deaths from Consumption, by Registration Returns All aged 20 and over whose Occupations were stated in	Dec. 31, 1880,	35.16	38.09	82,67	5.42
Registration Returns of Deaths	-	52.40	53.59	50.50	8.03
istration Returns.  Deaths of Native born Inhabitants, aged 20 years and	li i	52.50	54.28	50.52	8.71
over, as shown by Registration Returns Deaths of Foreign born Inhabitants, aged 20 years and	[] [	51.54	53.84	49.20	4.64
over, as shown by Registration Returns	p. (	54.18	55.05	51.60	8.45

TABLE XXIX.—Exhibiting, for Decedents Aged 20 Years and Over, in 1880, by Classified Occupations, the Number and the Aggregate and Average Ages of All returned, of All whose Occupations and Ages were returned, and of All whose Occupations were not Specified, One-half of a Year added to Age of each Person in place of Months and Days excluded.

CLASS.	OCCUPATIONS.—1880.	Number of	AGE IN YEARS AND 100ths.		
		Persons.	Aggregate.	Average.	
	ALL AGED 20 YEARS AND OVER	7,705	402,885,50	52,29	
	ALL SPECIFIED OCCUPATIONS,—AGED 20 YEARS AND OVER.	6,982	865,827,50	52.40	
	OCCUPATIONS UNSPECIFIED,—AGED 20 YEARS AND OVER	728	87,058.00	51. <b>26</b>	
I.	CULTIVATORS OF THE EARTH	1,707	101,162.00	59.96	
11.	ACTIVE MECHANICS ABROAD	180	9,555.00	53.08	
III.	ACTIVE MECHANICS IN SHOPS	234	12,265.50	52,42	
īv.	INACTIVE MECHANICS IN SHOPS	108	5,799.00	53.69	
v.	LABORERS,—NO SPECIAL TRADES	592	27,114.00	45.80	
VI.	AGENTS, LABORERS ABROAD, ETC	144	6,817.50	43.87	
VII.	SEAFABING MEN	47	1,932.50	41.12	
VIII.	SOLDIERS	1	76.50	76.50	
IX.	Business Men	258	12,296.50	47.66	
X.	Professional Men.	94	4,790.00	50.96	
XI.	Unbmployed	883	21,213.50	55.39	
XII.	FEMALES	8,234	163,805.50	50,50	
ı.	CULTIVATORS OF THE EARTH	1,707	101,162.00	59.26	
	Farmers	1,684	99,840.00	59,79	
	Farm Laborers	8	77,00	26.33	
	Farmers' Sons	9	53.00	26.50	
	Fruit-growers	2	88.00	44.00	
	Gardeners	12	778.00	64.83	
	Retired Farmers	4	825,00	81.50	
II.	ACTIVE MECHANICS ABROAD	180	9,555.00	53.08	
	Carpenters	118	6,446.00	54.68	
	Carpenters and Joiners	8	148.00	47.67	
	Joiners	5	277.00	55.49	
	Kalsominers	1	74.50	74.50	
	Masons	29	1,688.00	86,21	
j	Painters	28	872.00	87.91	
	Varnishers	1	54.50	54.50	
TIL.	ACTIVE MECHANICS IN SHOPS	234	12,265.50	52.42	
	Bakers	8	363.00	45.88	

TABLE XXIX.—Continued.—Occupations of Decedents in 1880.

	OCCUPATIONS,—1880.	Number of	AGE IN	YEARS Oths.
	3000122101.54	Persons.	Aggregate.	Average
ACT	TIVE MECHANICS IN SHOPS—(Continued.)			
Be	asket-makers	2	105.00	52.5
BI	lacksmiths	37	2,121.00	57.8
Bo	oller-makers	2	97.00	48.8
Br	rewers	5	226.00	45.5
Bı	rick-makers	4	246.00	61.4
B	rush-makers	1	85.50	35.
Ca	abinet-makers	11	504.00	45.
C	ar Repairers	1	21.50	21.
Cs	arriage-makers	4	204.00	51,
Ce	arriage Trimmers	2	127.00	63.
CI	hair-makers	8	186.00	62.
C	ooks	1	89,50	88.
Co	oopers	30	1,706.00	56.
C	oppersmiths	2	133,00	66.
D	yers	2	124.00	62
E	ngineers	20	865,00	43.
F	ilers	1	87.50	37.
Fi	inishers	2	56.00	28
G	unsmiths	8	179.00	59
н	eaters	1	44.50	44
н	emp-makers	1	63.50	63
M	achinists	18	583.00	44
M	arble-cutters	1	51.50	51
M	echanics	25	1,356.00	54
м	(illers	16	942,00	58
м	lillwrights	5	285.00	57
м	[olders	8	320.00	40
P	lumbers		99.00	40
P	ump-makers	,	24.50	24
80	aw-makers	1	60,50	60
88	AWY678		153.00	38
	tone-cutters		246,00	61
1	tave-makers	1	51.50	54
1	anners	1	1	69
1 -	urners	1	1	48
1	Vagon makers	١	227.00	56
	Veavers	8		70
1	Vhitewashers	1	ŀ	ł

TABLE XXIX.—Continued.—Occupations of Decedents in 1880.

				<del></del>	
CLASS.	OCCUPATIONS,—1880.	Number of	AGE IN YEARS AND		
		Persons.	Aggregate.	Average.	
IV.	INACTIVE MECHANICS IN SHOPS	108	5,799.00	53, 69	
	Barbers	7	807.00	43,86	
	Cigar-makers	10	885.00	38.50	
	Cutters	1	54.50	54.50	
	Goldsmiths	1	83,50	83.50	
	Hair-dressers	1	75,50	75.50	
	Harness-makers	6	319.00	58.17	
	Jewelers	8	175,00	58,33	
	Lithographers	2	. 49,00	24.50	
	Printers	6	168.00	28.00	
	Saddlers	1	82.50	82.50	
	Shoe-makers	40	2,560.00	64,00	
	Tailors	28	1,506.00	53,79	
	Telegraph Operators	2	54.00	27.00	
٧.	Laborers—No Special Trades	592	27,114.00	45,80	
	Colliers	1	52.50	52.50	
	Hotel Waiters	1	20.50	20.50	
	Housekeepers	8	226.00	75.83	
	Janitors	1	61.50	61.50	
	Laborers	489	22,949.00	46.93	
	Lime Burners	1	86.50	88.50	
	Log-drivers	1	23.50	28.50	
	Millmen	1	22,50	. 22.50	
	Miners	80	3,068.00	38.35	
	Packers	1	58,50	58.50	
	Porters	2	110,00	53,00	
	Servants	1	41,50	41.50	
	Shingle Packers	1	23.50	28.50	
	Street Sprinklers	1	74.50	7£50	
	Walters	1	27.50	27.50	
	Well-diggers	4	177.00	44.25	
	Well-drivers	1	26.50	26.50	
	Woodsmen	2	65,00	82.50	
VI.	AGENTS, LABORERS ABROAD, ETC.,	144	6,817.50	43.87	
	Agents	8	105.00	85.00	
	Baggage-masters	8	100,00	83.83	
	Bar-tenders	2	54.00	27,00	

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1880.

OLASS.	OCCUPATIONS,—1880.	Number of	AGE IN	YEARS Ouths.
		Persons.	Aggregate.	Average
VI.	AGENTS, LABORERS ABROAD, ETC.—(Continued.)			
	Brakemen	8	286.00	29.5
	Butchers	18	844.00	46.8
	Carriers	. 1	71.50	71.8
	Claim Agents	1	64.50	64.
	Draymen	4	214,00	53.
	Drovers	3	140,00	16.0
	Farriers	1	57.50	57.1
	Foremen	3	120.00	40.0
	Hunters	1	25.50	25.0
	Keepers of Life-saving Stations	1	85,50	35.
	Livery-stable keepers	5	229.00	45.8
	Lumbermen	24	1,163.00	48.
	Mail-carriers	1	47.50	47.4
	Peddlers	10	505,00	50.0
	Policemen	2	86,00	48.4
	Railroaders	12	451.00	87.6
	R. R. Carpenters	1	40,50	40.4
	R. E. Conductors	2	75,09	37.1
	R. R. Employes.	5	249.00	19.1
	R. R. Engineers.	2	72.00	36.0
	R. R. Section Boss	•	94.00	47.4
	Sheriffs	2	71.00	88.
	Switchmen	2	67.00	83.
	Teamsters	17	781.00	45.5
	Tinners		184.00	80.
		1	62.50	62
	Trappers	1	72.50	72.
	Watchmen	•	72,50	12.
VII.	SEAFARING MEN	47	1,932.50	41,1
	Captains of Tug Boats	1	47.50	47.0
	Fishermen	12	448,00	87.
	Sailors	31	1,439.00	42,
<b>V</b> 111.	SOLDIERS	1	76.50	76.
	Soldiers	1	76.50	76.
IX.	Business Men	258	12,296.50	47.0
	Accountants	8	117.00	89.0
	Bankers	7	423.00	60.4

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1880.

88.	OCCUPATIONS 1990	Number	AGE IN YEARS A	
88.	OCOUPATIONS,—1880.	Persons.	Aggregate.	Average
x.	Business Men-(Continued.)			
- 1	Bee-keepers	. 1	21.50	21.
١.	Book-keepers	20	799.00	39.
	Brass Foundry	1	22,50	22.
-	Builders	1	72.50	72.
I	Capitalists	2	124.00	62.
ı	Cattle Dealers	1	52.50	52
	Clerks	44	1,571.00	35
1	Clothiers	1	81.50	81
	Contractors	2	79.00	89
- 1	Druggists	11	606,00	55.
- 1	Expressmen	1	29.50	29
- 1	Furniture Dealers	2	95.00	47.
- 1	Grocers	16	908.00	56
	Hatters	2	112,00	56
- 1	Hotel Clerks	1	37.50	87.
	Hotel-keepers	12	534.00	44
	Ice Dealers	1	62.50	62
	Insurance Agents	4	217.00	54
	Justices of the Peace	2	   121,00	60
	Liquor Dealers	1	40.50	40
	Lumber Inspectors	9	77.00	88
-	Manufacturers	5	266.00	53
	Marble Dealers	1	47.50	47
- 1	Merchants	61	2,709,00	58
İ	Mill-owners	8	146.00	48
İ	Music Dealers	1	67.50	67.
- }	News Dealers	1	28.50	28
- 1	Nurserymen	1	58.50	58
1	Postmasters	1	63.50	63
- 1	Real Estate Dealers	5	272 00	54
	Registers	2	127.00	68
- [	Safe Store	1	31.50	81
	Salesmen	6	274.00	45.
	Saloon-keepers	27	1,908.00	44
	•		49.50	49.
	Salt Inspectors	1		29.
	Sewing-machine Agents	1	39.50	

TABLE XXIX.—Continued.—Occupations of Decedents in 1880.

CLASS.	OCCUPATIONS,—1880.	Number of	AGE IN Y	EARS AND
		Persons.	Aggregate.	Average.
IX.	BUSINESS MEN-(Continued.)			
	Shingle-makers	1	50,50	50.5
	Speculators	4	217.09	54.2
•	Supt. of Iron Works	1	62,50	69.5
	Supt. of Saw-mill	1	46.50	46.5
	Tradesmen	1	65.50	65.5
	Undertakers	3	148.00	49.8
	U. S. Marshals	1	68.50	68.5
	Wheat-buyers	1	46,50	46.5
X.	PROFESSIONAL MEN	94	4,790.00	50.9
	Artists	2	65.00	32.5
	Dentists	5	242.00	48.6
	Draughtsmen	1	87.50	87.5
	Lawyers	14	747.00	58,3
	Ministers	17	1,075.00	63.2
	Occulists	1	57.50	57.5
	Physicians	25	1,239.00	49.9
	Priests	2	103.00	51.5
	Professors	1	64.50	64.5
	Reporters	1	43.50	48.5
	Students	6	189.00	22.0
	Teachers	17	801.00	47,1
	Voterinary Surgeons	2	189.00	69.5
XI.	Unemployed	883	21,213,50	55,8
	Paupers	2	86.00	48.00
	Pensioners of 1812	2	194.00	97.0
	Retired	8	199.00	66,8
	Travolers	2	103.00	51.50
	U. B. A. Home	1	60,50	60.5
	Unemployed	104	6,752.00	64,9
	Unknown	269	13,819.60	51.8
XII.	FEMALES	8,234	163,305.50	50.5
	Artists	1	67.50	67.50
	At Home	2	51.00	25.50
	Barbers	1	72.50	72,50
	Basket-makers	8	157.00	52.83

TABLE XXIX.—Continued.—Occupation of Decedents in 1880.

Aggregate   Aren   Aggregate   Aren   Aggregate   Aren   Aggregate   Aren   Aggregate   Aren   Aggregate   Aren   Aggregate   Aren   Aggregate   Aren   Aggregate   Aren   Aggregate   Aren   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggregate   Aggreg	CLASS.	OCUUPATIONS,—1880.	Number of Persons.	AGE IN YEARS AND 100ths.	
Blacksmiths' wives				Aggregate.	Average.
Boarding House	XII.	FEMALES—(Continued.)			-
Boarding House		Blacksmiths' wives	2	150.00	75.0●
Browers		Boarders	2	169.00	84.50
Carpenters' wives       1       \$1.50         "Checker"       1       \$51.50         Clerks       2       \$9.00       \$9.00         Cooks       1       \$85.56       \$2         Domestics       49       1,988.00       \$6         Dress-makers       20       \$652.00       \$8         Farmers       163       \$,572.00       \$8         Farmers' Wives       106       \$,474.00       \$8         Farmers' Daughters       9       \$12.00       \$9         Gilders       1       \$2.50       \$1         Hair-dressers       1       \$2.50       \$1         Hotel-keepers       3       \$124.00       \$1         Housewives       768       \$41,209.00       \$1         Houseworkers       65       \$4,224.00       \$1         Invalids       1       \$6,50       \$6         Jobbers       1       \$6,50       \$6         Laborers       1       \$8,80       \$6         Laborers       1       \$8,80       \$6         Laborers       1       \$8,00       \$6         Ladies       1       \$9,00       \$6         <		Boarding House	1	79.50	79.50
"Ohecker"       1       51.50       2       89.00       3         Clerks       2       89.00       3       3       56.60       3         Cooks       1       35.56       3       3       3       652.00       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       <		Browers	1	70.50	70,50
Clerks       2       59.00       2         Cooks       1       35.56       2         Domestics       49       1,968.00       4         Dress-makers       20       652.00       2         Farmers       162       \$,572.00       3         Farmers' Wives       106       5,474.00       6         Farmers' Daughters       9       212.00       6         Gilders       1       22.50       5         Hair-dressers       1       23.50       5         Hotel-keepers       3       124.00       6         Housekeepers       768       41,209.00       6         Housewives       1,115       83,017.00       6         Housewives       1,115       83,017.00       6         Invalids       1       60.50       6         Jobbers       1       88.50       6         Laborers       15       88.50       6         Laborers       15       816.00       6         Laborers' Wives       7       222.00       7         Ladies       1       30.50       1         Ladies       1       30.50       1 </td <td>Carpenters' wives</td> <td>1</td> <td>81.50</td> <td>31.50</td>		Carpenters' wives	1	81.50	31.50
Cooks       1       35.56       2         Domestics       49       1,988.00       4         Dress-makers       20       652.00       3         Farmers       163       5,572.00       6         Farmers' Wives       106       5,474.00       6         Farmers' Daughters       9       212.00       3         Gilders       1       22.50       3         Hair-dressers       1       23.50       3         Hotel-keepers       3       124.00       4         Housekeepers       768       41,209.00       4         Housewives       1,115       63,047.00       4         House-workers       65       3,424.00       4         Invalids       1       60.50       6         Jobbers       1       58.50       6         Laborers       1       15       816.00       6         Laborers       1       15       816.00       6         Laborers' Wives       7       223.00       6       6         Ladies       1       39.50       6       6         Ladies       1       39.50       6       6 <tr< td=""><td></td><td>"Checker"</td><td>1</td><td>51.50</td><td>51.50</td></tr<>		"Checker"	1	51.50	51.50
Domestics       49       1,968.00         Dress-makers       20       652.00         Farmers       162       8,672.00         Farmers' Wives       106       5,474.00         Farmers' Daughters       9       212.00         Gilders       1       22.50         Hair-dressers       1       23.50         Hotel-keepers       3       124.00         Housekeepers       768       41,209.00         Housewives       1,115       58,047.00         Houseworkers       65       3,424.00         Invalids       1       60.50         Jobbers       1       58.50         Laborers       15       816.00         Laborers' Wives       7       222.00         Ladies       1       30.50         Landladies       1       30.50         Lithographers       1       79.50         Manufacturers       1       40.60         Masons' wives       1       31.50         Matrons       12       681.00         Mechanics' wives       2       39.00         Merchants       2       63.00         Merchants' Wives       1		Clerks	2	59.00	29.50
Dress-makers		Cooks	1	85.50	85,50
Farmers       162       \$,572.00       8         Farmers' Wives       106       5,474.00       8         Farmers' Daughters       9       212.00       9         Gilders       1       22.50       9         Hair-dressers       1       23.50       9         Hotel-keepers       3       124.00       6         Houseweepers       768       41,209.00       6         Houseworkers       65       3,424.00       6         Invalids       1       60.50       6         Jobbers       1       58.50       6         Laborers       15       816.00       6         Laborers' Wives       7       222.00       6         Ladies       1       39.80       6         Ladies       1       30.80       6         Landladies       1       30.80       6         Lithographers       1       30.80       6         "Manufacturers of Shell-work       1       40.60       6         Masons' wives       1       31.80       6         Mechanics' wives       2       89.00       6         Merchants' Wives       1       38.50		Domestics	49	1,968.00	40.16
Farmers' Wives		Dress-makers	20	652,00	82.60
Farmers' Daughters		Farmers	162	8,572.00	52.91
Gilders		Farmers' Wives	106	5,474.00	51.64
Hair-dressers 1 23.50 5 Hotel-keepers 3 124.00 6 Housekeepers 768 41,209.00 6 Housewives 1,115 55,047.00 6 House-workers 65 8,424.00 6 Invalids 1 60.50 6 Jobbers 1 58.50 6 Laborers 15 816.00 6 Laborers Wives 7 222.00 5 Ladies 1 39.50 6 Landladies 1 30.50 6 Lithographers 1 20.50 6 Manufacturers 1 20.50 6 Manufacturers 1 40.50 6 Masons' wives 1 20.50 6 Matrons 12 661.00 6 Mechanics' wives 2 89.00 6 Merchants Wives 2 89.00 6 Merchants Wives 1 88.50 6		Farmers' Daughters	9	212.00	23.56
Hotel-keepers		Gilders	1	22.50	22,50
Housekeepers		Hair-dressers	1	23.50	23.50
Housewives		Hotel-keepers	8	124.00	41.88
House-workers		Housekeepers	768	41,209.00	58,66
Invalids		Housewives	1,115	53,017.00	47,58
Jobbers		House-workers	65	8,424.00	52.69
Laborers   15   816.00   15   15   15   15   15   15   15		Invalids	1	60,50	60,50
Laborers' Wives       7       222.00       3         Ladies       1       39.50       3         Landiadies       1       30.50       3         Lithographers       1       30.50       3         "Managers"       1       79.50       3         Manufacturers       1       20.50       3         Manufacturers of Shell-work       1       40.50       4         Masons' wives       1       31.50       3         Matrons       12       681.00       6         Mechanics' wives       2       89.00       6         Merchants       2       63.00       3         Merchants' Wives       1       38.50       3		Jobbers	1	58.50	59.50
Ladies		Laborers	15	816,00	54.40
Landladies       1       30.50         Lithographers       1       30.50         "Managors"       1       79.50         Manufacturers       1       20.50         Manufacturers of Shell-work       1       40.60         Masons' wives       1       31.50         Matrona       12       661.00         Mechanics' wives       2       89.00         Merchants       2       63.00         Merchants' Wives       1       38.50		Laborers' Wives	. 7	222.00	81,71
Lithographers		Ladies	1	89.50	39.50
"Managors"       1       79.50         Manufacturers       1       20.50         Manufacturers of Shell-work       1       40.50         Masons' wives       1       81.50         Matrona       12       661.00         Mechanics' wives       2       89.00         Merchants       2       63.00         Morchants' Wives       1       38.50		Landladies	1	80,50	80.50
"Managors"       1       79.50         Manufacturers       1       20.50         Manufacturers of Shell-work       1       40.50         Masons' wives       1       81.50         Matrona       12       661.00         Mechanics' wives       2       89.00         Merchants       2       63.00         Morchants' Wives       1       38.50		Lithographers	1	80.50	30.50
Manufacturers       1       20.50       9         Manufacturers of Shell-work       1       40.50       6         Masons' wives       1       81.50       9         Matrons       12       661.00       6         Mechanics' wives       2       89.00       6         Merchants       2       63.00       6         Merchants' Wives       1       38.50       6		i ·	1	79.50	79.50
Masons' wives.       1       81.50       3         Matrona       12       661.00       3         Mechanics' wives.       2       89.00       3         Merchants       2       63.00       3         Merchants' Wives       1       38.50       3		_	1 1	20.50	20.50
Matrona       12       681.00       681.00         Mechanica' wives       2       89.00         Merchanta       2       63.00       63.00         Merchants' Wives       1       38.50       63.00		Manufacturers of Shell-work	1	40.50	40,50
Mechanics' wives.       2       89.00       89.00         Merchants.       2       63.00       80.00         Merchants' Wives.       1       38.50       80.00		Masona' wives	1	81.50	31.50
Mechanics' wives			· -		55.08
Merchants Wives					44,50
Mcrchants' Wives			1		81.50
			_		88,50
			1		83.00
Millers				1	66.50

TABLE XXIX.—Continued.—Occupations of Decedents in 1880.

OLASS.	OCCUPATIONS,—1880.	Number of Persons.	AGE IN YEARS AND 100THS.	
			Aggregate.	Average.
XII.	FEMALES—(Continued.)			
	Milliners	9	386,00	42,60
	Millwrights' Wives	1	67.50	67.50
	Miners	3	194.00	41.83
	Miners' Wives	1	57,50	57.50
	Ministers' Wives	1	26,50	26.50
	Mothers	2	114.00	57.00
	Notion Store	1	41.50	41.50
	Nurses	4	261.00	65.25
	Organists	1	25.50	25.50
•	Paupers	1	60.50	60,50
	Physicians	2	112.00	56.00
	Physicians' Wives	1	, 51.50	51.50
	Prostitutes	1	22,50	22,50
	Retired	8	225.00	75.00
	Retired Farmers	2	142.00	71.00
	Saloon-keepers	2	109.00	54.50
	Seamstresses	15	622.00	41.47
	Servants	21	765.00	86.43
	Shoe-makers	1	41.50	41.50
	Spinners	1	83,50	88.50
	Students	ι	22.50	22,50
	Tailoresses	10	612,00	61.20
	Teachers	32	1,641.00	32.53
	Unemployed	265	15,006.00	56.63
	Unknown	454	23,289.00	51.19
	Vagrants	1	43,50	48.50
	Washers	1	22.50	22.50
	Weavers.	8	630,00	78,75
	Wives	21	1,115.00	53,10

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<b>A.</b>	PAGE.
Age, Number of Persons Married at different periods of,	83-91. 95
Age, Average, of Decedents Aged 20 and Over, by Classified Occupations	
Age, Average, of Persons Married in 1877-1880, by Nativity	
Ages, Deaths by, by Months and by Sex	
Ages, Deaths by, by Sex and excess of the Sexes	
Ages of Persons who Died, by Months of Death	
Ages of Persons who Died in 1880.	
All Ages, Deaths from Old Age, Aged 70 and Over, and Under 5 Years, by Counties	
All Causes, Consumption, Pneumonia, Typhoid Fever, Diarrhea, etc., by Counties	
Alpena, Grand Haven, Detroit, and Marquette, Mich., Meteorology at, in 1890	
Austria, Inhabitants to One Marriage in.	
Average Age of Decedents Aged 20 and Over, by Occupation	
Average Number of Births per Quarter, Month, Week, and Day	
	_
Average Number of Deaths per Quarter, Month, Week, and Day	
Average Number of Marriages per Quarter, Month, Week, and Day	71
В.	
Bavaria, Inhabitants to One Marriago in,	99
Belgium, Inhabitants to One Marriage in,	99
Births, Corrected for Omissions in Enumerating	2, 5-10, 67
Births by Counties, by Color, by Sex, and Proportion of the Sexes	23-30
Births by Counties, Parent-Nativity, and Sex	83-40
Births, Deaths, and Excess of Births, by Months, for 1875-1880	
Births, Deaths, and Excess of Births by Parent-nativity, for 1875-1890	
Births and Deaths, Returned, which Occurred out of Michigan	
Births of Illegitimates, Proportion of, to Total Births for 1875-1880.	
Births in 1880, Conceptions for, by Months	
Births in 1890, Number and Proportion of, by Sex, by Parent-Nativity	
Births, Males to 100 Females23, 6	
Births in Michigan during the Year 1880	
Birth-Months Most Favorable to the Life of a Child	
Births, by Months, Corrected for Omissions, for the Years 1877-1880	
Births, by Months Equalized, by Sex	
Births, by Months in Order, greatest first, Number and Proportion of, for 1875-1880	
Births, Marriages, and Deaths for Certain Periods of Time	
Births, Marriages, Deaths, and Excess of Births Over Deaths, 1875-1880.	
Births, Marriages, and Deaths in 1880, and Population in 1880, by Countles	
Births, Marriages, and Deaths, Relations of,	
Births, Marriages, and Deaths, Statements Concerning,	
Births by Parent-Nativity	
Births, Per Cent. added to Correct for Omissions in Enumerating	
Births, Per Cent. of, as Returned and as Corrected for Omissions, for each of the Years 1871-	
Births, Per Cent. Returned of those which probably Occurred	
Births per Quarter, Month, Week, and Day, as Returned and as Corrected	
Births by Quarters, for the Years 1875-1880, as Returned and as Corrected	
Births by Race or Color, Influence of Sex upon, etc	21

Births during the Year 1811, by Months	6
Births of Ma es turing the Year 1999, by Months	7
Births of Femiles during the Year 1999, by Months	
Births during the Year 1991, by Months and Sex	•
Buths in 1991, as Corrected for Omissions, Equalized to Uniform Months	<b>&gt;</b>
Births by Counties, by Months, and by Sex	13-50
Births by Color and by Sex, and Proportion of the Sexes	11-23
Birth rate, Sative and Foreign-born Inhabitants	31
Births, Parent-Sativity of, 1853-1890	23
Births of Twine, 19th, Occupations of Fathers of,	51
Births of Triplet Children, 1999	53
Births of Illegitimates, by Months, Sex, and Parent-Nativity	54
Births of Illegitimates by Color, Sex, and Proportion of the Sexes	30
Rirth-rate, Proportion of Sexes	21
Births, Relation of, to Marriages in Months of their Conception	11-13
Births,—Sex of Children	64-70
Bowels, Brain, Heart, Throat, and Lungs, Diseases of,	164-165
Brain, Bowels, Heart, Throat, and Lungs, Diseases of,	164-165
Brides and Bridegrooms, Proportion of, by Periods of Age	95
Bridegrooms and Brides, Nativity of	22
*	
<b>c.</b>	
Cancer, Deaths from, in 1400	<b>32.</b> 54
Concer, Deaths frem,	
Casualty, Deaths from,	
Causes of Deaths, 1990	-
Unuses of Deaths, Classified	
Causes of Deaths, Dr. Farr's Classification	
Causes of Deaths, Fifteen Principal, 1873-1999	
Causes of Deaths, Seven Groups of,	-
Causes of Deaths, Specified, by Months, Sex, and Periods of Age	
Cophalitis, Deaths from, in 1899	
Cerebro-spinal Meningitis, Deaths from, in 1990	
Children Born in 1980,—Died Aged Under One Year	
Classes, Deaths by, by Geographical Divisions of the State	
Classified Causes of Deaths, by Countles, 1880,	
Classified Causes of Deaths, 1876-1880	
Classified Occupations of Decedents, Aged 20 and Over, Average Age, etc	
Color, Deaths by, by Counties	
Color, Deaths by, by Sex, Per Cent. of each Color	
Color of Illegitimate Children, by Sex	86
Color of Decedents in Michigan, in 1880	
Color of Persons Married in Michigan	
Color, Marriages by, by Counties	
Color or Race, Births by,	
Comparative Natural Increase of Native and Foreign-born Inhabitants, 1875-1980	
Congestive Chills, Deaths from, in 1980.	
Conceptions for Births in 1880, by Months	
Constitutional Diseases, Deaths from,	
Consumption, Deaths from, in 1980	
Consumption, Occupation of Decedents from, by Sex, Months, Periods of Age, etc	304-311
Consumption and Pneumonia, Correlation of	
Consumption, Pneumonia, Typhoid Fever, etc., by Geographical Divisions	296-297
Consumption, Pneumonia, Typhoid Fever, Diarrhea, etc., by Counties	
Correlation of Consumption and Pneumonia	
Corrections for Omissions in the Enumeration of Deaths	109-113
Counties, Deaths by, by Color, by Sex	
Counties, Causes of Deaths by, Classified	
Counties, Deaths by, from Consumption, Pneumonia, Typhold Fever, Diarrhea, etc.	
Counties, Deaths by, from Old Age, Aged 70 and Over, Under 5, etc	
Counties and Months, Marriages by,	
Counties, Months, Periods of Age, and Sex, Deaths by,	
Counties, Months and Sex, Births by,	
Various, wanted and pay hitter of trees occasions to the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction o	13-9

	PAGE.
Countles, Parent-Nativity, and Sex, Births by,	83-40
Countles, Parent-Nutivity and Sex, Twin Births by,	44-50
Counties and Townships reported as having no Births in 1880	63
Counties and Townships from which no Returns of Births, for 1890, were received	63
Counties and Townships from which no Returns of Deaths, for 1880, were received	
Counties and Townships reported as having no Deaths in 1880	138
Counties, Twins, Illegitimate, and Still-born Children, by,	61
Oroup, Deaths from, in 1880	
Oroup, Deaths from, in 1000	200, 201
D.	
No. 1 West W. A. C. Anna Anna and Northean of Blothean	٠
Day, Week, Month, Quarter, Average Number of Births per,	3
Deaths Aged Under One Month, Relation of, to Births	134
Deaths, All Causes, Consumption, Pneumonia, Typhoid Fever, Diarrhea, etc., by Counties	
Doaths, Average Number, Per Quarter, Month, Week, Day	104
Deaths, Births, and Marriages in 1880, and Population in 1880, by Countiesxx	
Deaths, Births, and Marriages, Relations of,xiv	
Deaths, Births, Marriages, Statements concerning,	xi.
Deaths, Births, and Excess of Births, by Months, for 1875-1880	zili.
Deaths and Births, Returned, which Occurred out of Michigan in 1880	ziz.
Deaths from Casualty, Specified	246-247
Deaths of Centenarians	135
Deaths of Children Aged Under One Year, Born in 1879, by Months:	132
Deaths by Counties, by Color, by Sex	153-155
Deaths by Color, by Sex, and Proportion of the Sexes	152
Deaths, 1880, by Classes of Causes, by Divisions of the State	167
Deaths by Classes of Causes, by Months	163
Deaths by Classified Causes, by Counties	168-197
Deaths in 1880, Compiled as Unknown	255
Deaths and Conceptions, Relation between, by Months	66-69
Deaths from Consumption, by Occupation, Conjugal Condition, Sex, Months, etc	
Deaths by Counties, Nativity, and Sex	
Deaths by Counties, Months, Periods of Age, and by Sex	
Deaths, Fifteen Principal Causes of, 1875-1880.	
Deaths Grouped by Part of Body Diseased, 1875-1880.	
Deaths, 1875-1880, Number and Proportion of, by Months	106
Deaths, Marriages, and Births, for Certain Periods of Time	xii.
Deaths in Michigan during the Year 1880	
Deaths, Months Arranged in Order by Number of—for Massachusetts, Michigan, and	101-000
	109
Bhode Island	
Deaths by Months, Sex, and Periods of Age, Specified, for 1875-1880	
Deaths of Native and of Foreign-born Inhabitants.	
Deaths, Number and Per Cent. of Each Class to Total, for 1876-1880.	163
Deaths, Number and Per Cent of, by Quarters of the Years 1875-1880	106
Deaths, Number and Per Cent. of, by Months and by Sex	107
Deaths, Number of, as Returned, and as Corrected for Omissions	105
Deaths from Old Age, Aged 70 and Over, under 5, etc., by Geographical Divisions	
Deaths, Number of-by Periods of Age, Sex, and Proportion of the Sexes	114
Deaths by Age, by Sex, and Excess of the Sexes	115, 116
Deaths by Periods of Age, by Months	117
Death-rate in Michigan	105
Deaths as Returned, Corrected, Equalized, etc	109, 118
Deaths in 1890 as Returned and as Corrected, Per Cent, of, to Inhabitants in 1880	105
Deaths as Returned, Equalized, by Months	108
Deaths by Periods of Age, by Sex, by Months	118, 119
Deaths by Ages, by Sex, by Months	
Decedents, 1876-1880, Number and Nativity of,	156
Decedents Aged 20 and Over, by Occupations, Average Age, etc	
Decedents and Inhabitants, Average Age of,	390-321
Decedents by Occupation, Classified, Aggregate and Average Age of,	
Decedents from Old Age, Aged 70 and Over, under 5, etc., by Counties	302-306
Denmark, Inhabitants to One Marriage in,	99
Detroit, Alpena, Grand Haven, and Marquette, Meteorology at, in 1880.	268
Developmental Diseases	
20 1 000 100, 100, 100, 100, 100, 100, 1	

	PAGE.
Diarrhea, Deaths from in 1880	296- <b>299</b>
Diarrhea, Deaths from in July and August, 1872-1880	280
Diarrhea, Relation of, to Meteorological Conditions	
Diarrhea, Typhoid Fever, Pneumonia, Consumption, etc., by Counties	298 <b>299</b>
Diarrhea, Typhoid Fever, Consumption, Pneumonia, etc., by Geographical Divisions	296-297
Diarrhea and Dysentery, Number and Per Cent. of, by Geographical Divisions	282
Diagramatic Table,—Deaths of Children under One Year of Age	130-131
Diagram No. 1,—Births in 1879 and 1880, and Marriages and Deaths in Months of Conceptions.	xvi.
Diagram No. 2,—Marriages for 1876-1889, by Months, Corrected and Equalized.	75
Diagram No. 3,—Deaths in 1880, and Average for 10 Years, ending with 1880, as Returned,	
Corrected, etc	112
Diagram No. 4,—Deaths in 1880, by Classes	162
Diagram No. 5,—Deaths from Five Groups of Causes, for 1869-1880	165
Diagram No. 6,—Average Temperature, by Months, for 1877-1880	257
Diagram No. 7,—Grains of Vapor in Cubic Foot of Air, by Months, for 1877-1880	259
Diagram No. 8,—Atmospheric Pressure, by Months, for the Years 1877-1880	260
Diagram No. 9,—Deaths from Pneumonia, 1877-1880, and Average for 10 Years	291
Diagram No. 10,—Ozone—Day and Night Observations—by Months, for 1880	293
Diphtheria, Deaths from, in 1880	267-272
Diphtheria, Mortality from, Constantly increased since 1869	269
•	
· <b>R.</b>	
Wheney Communical Divisions of the State Counties in Book	166
Eleven Geographical Divisions of the State, Countles in Each	
England, Inhabitants to One Marriage in,	99
Exhibit A,—Births, Marriages, Deaths, and Excess of Births over Deaths, 1875-1880	x.
Exhibit A,—Birthe as Returned, by Months, Corrected and Equalized to Population	6
Exhibit A,—Marriages as Returned, by Quarters, Number and Per Cent. of, for 1875-1880	72
Exhibit A,—Deaths, by Months, and by Sex, Equalized, and Proportion of the Sexes	108
Exhibit B,—Statements Concerning Births, Marriages, and Deaths	xi.
Exhibit B,—Births of Males by Months, Corrected, and Equalized to Population	7
Exhibit B,—Marriages Equalized by Months, Corrected up to May 11, 1882, for 1876-1880	74
Exhibit B,—Deaths, Months arranged in order by number of, in Michigan, Massachusetts,	100
and Rhode Island	109
Exhibit C,—Births of Females, by Months, Corrected and Equalized to Population	8 83
Exhibit C,—Persons Married 1877-1880, Average Age by Nativity	110
Exhibit D.—Births, Deaths, and Excess of Births, by Parent-Nativity, for 1875-1880	xviii.
Exhibit D.—Births by Months, and Sex, Corrected, Equalized, etc	9
Exhibit D,—Inhabitants to One Marriage Aunually, for Different Countries	99
Exhibit D,—Deaths in 1877-1880, by Months, Corrected for Omissions.	111
	12
Exhibit E,—Relation between Births in 1830 and Marriages in Months of their Conceptions.  Exhibit E,—Births and Doaths, Returned, which Occurred out of Michigan	
	xix.
Exhibit E.—Deaths as Returned, Corrected, Equalized to Uniform Months	113 22
Exhibit F,—Births in 1875-1830, Number and Per Cent. of, by Nativity of Parents	
Exhibit G,—Deaths by Periods of Age, and by Months	
and the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra	117
Exhibit I,—Townships reported as having no Deaths in 1890, showing Population	136-137 138
Exhibit J.—Rieven Geographical Divisions of the State, Counties in Each,	166
Exhibit K,—Deaths from Croup, in 1880, and Coincident Meteorology	
the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	266
Exhibit I., - Croup and Diphtheria, in 1880, and Coincident Meteorology	267 260
Exhibit N,—Deaths from Diphtheria, in 1880, and Coincident Meteorology	268
Exhibit N,—Births as Returned, Equalized to Uniform Months	65
Exhibit N.—Consumption, by Months, Equalized to Uniform Length	285
Exhibit O.—Births as Returned, Equalized, and Excess of Males, by Months	66
Exhibit O.—Consumption, by Months, and Coincident Meteorology	286
Exhibit P.—Births, by Sex and by Months, Corrected, Equalized to Population, Equalized to Uniform Months	
to Uniform Months	67
Exhibit P.—Deaths from Pneumonia, in 1880, and Coincident Meteorology	289
Exhibit Q.—Average Age of Decedents, and of Inhabitants	
Exhibit R.—Deaths in Michigan in 1880, Compiled as Casualty	
Exhibit S.—Deaths from Cancer, Specifying Part of Body Affected	254

	PAGE.
Exhibit U,-Deaths from Congestive Chills, and Coincident Meteorology	275
Exhibit V,—Cerebro-spinal Meningitis, etc., for 1860	278
Exhibit W,—Deaths from Intermittent Fever, and Coincident Meteorology	276
Exhibit X.—Deaths from Typhoid Fever, and Coincident Meteorology	278 284
Exhibit Z,—Deaths in Michigan, in 1880, Compiled as Unknown	255
Exhibit 1,—Births, Deaths, and Excess of Births Over Deaths, by Months, 1875-1880	xiii,
Exhibit 1,-Number and Proportion of Brides and Bridegrooms by Nativity	89
Exhibit 2,—Births in 1880, and Marriages and Deaths in Months of Conceptions	zvii.
Exhibit 2,-Births, by Months, for 1877-1880, Corrected for Omissions, Number and Propor-	
tion of,	5
Exhibit 2,—Marriages by Ages, by Sex, and Excess of the Sexes.	85
Exhibit 2,—Relation of Still-births to All Deaths, for 1875-1880	129 10
Exhibit 3,—Children Born in 1879, Died in 1879-1880, Aged under One Year, by Months	132
Exhibit 4,—Months of Birth and of Death of Children Born in 1879, etc.	133
Exhibit 5,-Twins, by Nativity and Color of Mothers, for 1878-1880	43
Exhibit 5,-Deaths Aged under One Month, Proportion of to Births, by Months, by Sex	134
Exhibit 6,-Relation of Still-births to all Children Born for each of the Years 1872-1880	58
Exhibit 6,-Number and Per Cent. of Deaths, by Nativity, for 1876-1880	156
Exhibit 7,—Nativity and Color of Mothers of Still-born Children, 1878-1880	53
Exhibit 7,—Deaths, Number of, from each Class of Causes, by Months, 1880	163
Exhibit 8,—Illegitimate Children, number and proportion of, for the Years 1875-1880	57 164
Exhibit 9,—Illegitimate Children, in 1878-1880, Nativity and Color of Mothers of,	60
Exhibit 9,—Facts Concerning Deaths from Suicide in 1880	
Exhibit 10,-Townships having no Births in 1830, Showing Population in 1880	62
Exhibit 10,-Average Temperature, by Months, for the Years 1871-1880	256
Exhibit 11,-Still-births, Occupations of Fathers of, 1880	54
Exhibit 11,—Absolute Humidity, by Months, for each of the Years 1871-1880	<b>25</b> 8
Exhibit 12,—Pressure of Atmosphere, by Months, for the Years 1871-1880	
Exhibit 13,—Deaths from All Causes, and Coincident Meteorology, for 1870-1880 Exhibit 14,—Deaths from All Causes, by Months, and Coincident Meteorology	264 265
Exhibit 15,—Cerebro-spinal Meningitis, and Coincident Meteorology	
Exhibit 16,—Deaths from Diarrhea in July and August, and Coincident Meteorology	280
Exhibit 17,—Pneumonia, by Months, for 1871-1880, and Average for 10 Years ending with 1880	
Exhibit 18,-Deaths from Pneumonia in Feb. and Mar., 1872-1880, and Coincident Meteorology	
Exhibit 19,-Deaths from Rhoumatism, and Coincident Meteorology	268
Exhibit 20,-Ozone Observations-Day and Night-by Months, for 1872-1880	292
Exhibit 21,—Deaths from Diarrhea, by Months, and Coincident Meteorology	281
Exhibit 22,—Deaths from Cephalitis, by Months, and Coincident Meteorology	277
F.	
Fifteen Principal Causes of Death, 1875-1880	250-251
Fifteen Principal Causes of Death, in 1880, Number and Per Cent. of Each, to Total Deaths.	
Finland, Inhabitants to One Marriage in,	
Five Groups of Causes of Death, 1880.	
Foreign-born Mothers of Illegitimate Children	60
France, Inhabitants to One Marriage in,	99
<b>G.</b>	
General Remarks and Statements	
Geographical Divisions of the State, Deaths by, in 1880	16
Geographical Divisions, Consumption, Pheumonia, Typhoid Fever, Diarries, etc., by,	
Grand Haven, Marquette, Detroit, and Alpena, Mich., Meteorology at, in 1890	
Great Disparity in Ages of Persons Married	
Greece, Inhabitants to One Marriage in,	
н,	
Heart, Throat, Brain, Lungs, and Bowels, Diseases of,	164165
Holland, Inhabitants to One Marriage in,	
Humidity of Atmosphere, by Months, for Different Years	

1.	_
Illegitimate Children, Annual Number, 1875-1880	PAGE.
Illegitimate Children	
Illegitimate Children, by Months, and by Parent-Nativity	58
Illegitimate Children Born in 1880, and Per Cent. of each Sex to Total,	59
Illegitimate Children, Births of, by Counties	61
Infant Mortality	
Inhabitants to One Marriage, Annually, in Different Countries	38
Inhabitants in 1890, Represented by Births in 1890	
Inhabitants in 1880, Represented by Deaths in 1880.	108
Intermittent Fever, Deaths from, in 1890.	215, 276
Intermittent Fever, Typhoid Fever, Diarrhen, Consumption, etc., by Geographical Di-	ana ana
visions	
antoninesone rater, x, photo rater, partines, ratemonie, consumption, by connection.	
L.	
Letter of Transmittal of this Volume by the Secretary of State	li.–vill
Local Diseases	
Lungs, Brain, Bowels, Throat, and Heart, Diseases of	164-165
M.	
Males to 100 Females among Births, by Counties	23 -30
Males to 100 Females among Births, by Months, Equalized	65
Males to 100 Females among Deaths, by Months	107
Males to 100 Females among Deaths by Periods of Age	114
Males to 100 Females among Twins	41, 70
Males to 100 Females, by Parent-Nativity, among lilegitimates	60
Marquette, Detroit, Alpena, Grand Haven, Meteorology at, in 1880	963 71
Marriages, Births, and Deaths for Certain Periods of Time	xii.
Marriages, Births, Deaths, and Excess of Births Over Deaths, as Returned and as Corrected,	
1875-1880	x.
Marriages, Births, and Deaths, in 1880, and Population in 1880, by Counties	
Marriages, Births, and Deaths, Relations of,	7XVIL Xİ.
Marriages by Counties, Corrected up to May 11, 1882, for 1874-1880.	
Marriages by Counties and by Months	76-77
Marriages by Counties, by Color of Persons Married	79-81
Marriages by Age, showing the Excess of the Sexes.	85
Marriages at Different Ages, in Periods of Years, by Counties	96-91 94-96
Marriages in Michigan in 1880	
Marriages in Months of Conceptions of Births.	11-19
Marriages by Months, Corrected and Equalized for the Years 1876-1880	74
Marriages by Months, in Order of Greatest Number First, for 1877-1880	
Marriages by Periods of Age, by Sex, and Proportion of the Sexes	
Marriages of Persons Under 21 Years of Age, by Counties	92-94 71
Marriages by Quarters of the Year, as Returned and as Corrected, for 1875-1880.	79
Marriages with Great Disparity of Ages	96-98
Massachusetts, Inhabitants to One Marriage in,	99
Massachusetts, Mich., and Rhode Island, Months of Deaths in, in Order, Greatest No. First	109
Measles, Deaths from, in 1830.	
Meteorological Conditions and Deaths from Scarlet Fever	284
Meteorological Conditions and their Relations to Deaths	286
Meteorology and Deaths from Pneumonia, by Months, for 1880	287-290
Meteorology at Detroit, Alpena, Grand Haven, and Marquette, Mich., in 1880	263
Meteorology, as Related to Deaths from Diarrhea	
Michigan, Death-rate in,	100
Michigan, Inhabitants to One Marriage in,	99
Minnesota, Inhabitants to One Marriage in,	109
	-

	PAGE.
Months, Counties and Sex, Births by,	13-20
Months of Greatest Danger to Life of Child Aged Under One Year	131
Months, Marriages by, by Counties	76-77
Months, Parent Nativity and Sex, Still-births by,	55
Months and Periods of Age, Deaths from Ten Specified Causes by,	
Month, Quarter, Week, Day, Average No. of Births per,	2
Month, Quarter, Week, Day, Average No. of Deaths per,	104
Months, Sex, and Age, Deaths by,	
Month, Week, Day, Quarter, Average Number of Marriages por,	71
Mothers Bearing Still-born Children, Proportion of, by Nativity and Color	52-58
Mothers of Illegitimates in 1878-1880, by Nativity and Color	60-
· <b>N.</b>	
Nativity of Parents of Children Born, 1875-1880	32
Nativity of Parents of Children Born in 1880	3-40, 70
Nativity of Parents of Twins	42-50
Nativity and Color of Mothers having Still-births, 1878-1880	53
Nativity of Parents of Still-births	55-56
Nativity and Color of Mothers of Illegitimate Children	60
Nativity and Color of Mothers of Twins, for the Years 1878-1890	48
Nativity of Parents of Liegitimate Children	58-60
Nativity of Persons Married82, 8	
Nativity, Deaths by, by Countles	
Nativity, Deaths by, for the Years 1876-1880	156
Native and Foreign-born Inhabitants, Comparative Natural Increase of	xviii.
Nativity, Sex, and Periods of Age of Persons Married, by Counties	86-91
New Jersey, Inhabitants to One Marriage in,	99
New York City, Inhabitants to One Marriage in,	99
New York, Inhabitants to One Marriage in,	99
Norway, Inhabitants to One Marriage in,	99
Nosological Arrangement of Causes of Death, by Counties	108-197
Number of Births in 1880.	5
Number and Proportion of Births, by Months, as Corrected for the Years 1877-1880	3
Number of Persons Married in 1890, by Age, by Sex, and Excess of the Sexes	85
Number of Persons who Married those of another Color	78
Number of Inhabitants to One Marriage, by Counties	
Number of Deaths in 1880	104
<b>0.</b>	
Occupations of Decedents Aged 20 and Over, Classified, Aggregate and Average Age, etc	
Occupations of Decedents from Consumption, by Months, Sex, etc	
Occupations of Fathers of Twins Born in 1880	51
Occupations of Fathers of Still-births, 1880	. 54
Ohlo, Inhabitants to One Marriage in	99
Old Age, Decedents Aged 70 and Over, and Under 5, by Counties	
Old Age, Decedents Aged 70 and Over, Under 5, etc., by Geographical Divisions	200-301
Ozone, Day and Night Observations, by Months, for 1872-1880	202
<b>P.</b>	
Parent-Nativity, Births of 1880	<b>13-4</b> 0, 70
Parent-Nativity of Twins Born in 1880	11-50, 70
Parent-Nativity, Counties, and Sex, Births by,	33-40
Parent-Nativity of Still-births, 1880	55-56
Parent-Nativity of Illegitimate Children	58, 60
Per Cent. of Births to Population, by Countles	23-30
Per Cent, of Births of each Sex to Total of Both Sexes	22-30
Per Cent, of Births of Twins to All Mothers, 1878-1880.	48
Per Cent. of Deaths at Certain Periods of Age to Deaths at All Ages	
Per Cent. of Deaths in 1890, as Returned, and as Corrected, to Inhabitants in 1890	105 106
Per Cent, of Deaths of each Sex to Total of Both Sexes, by Months and by Age	
Per Cent, of Deaths of each Color to Total of All Colors, by Sex	152
Per Cent. of Deaths by Geographical Divisions, by Causes Classified	167

	PAGE.
Per Cent. of Illegitimate Births to All Births, 1875-1880	57
Per Cent. of Mothers of Still-births to Ali Mothers, 1872-1880.	53
Per Cent. of Marriages in each Quarter of the Year, for 1875-1880	79
Per Cent., Nativity, and Number of Brides and Bridegrooms	82 84
Per Cent. of Still-births to Total Deaths	129
Periods of Age, Deaths by, by Sex, and Proportion of the Sexes	114
Periods of Age, Months, Sex, Deaths by, by Counties	
Periods of Age, Sex, Months, Deaths by,	
Persons Married, by Color	78
Persons Married, by Countles, Nativity, Sex, and Periods of Age	86-91
Persons Married, in Michigan, by Age, by Sex, and Excess of the Sexes	85 78
Persons Married Under 21 Years of Age, by Counties	92-94
Persons Married with Great Disparity of Ages	96-96
Pneumonia and Consumption, Correlation of,	
Pneumonia, Consumption, Typhoid Fever, Diarrhea, etc., by Counties	298- <b>29</b> 9
Pneumonia, Deaths from, in 1880	
Pneumonia, Deaths from, by Months, for each of the Years 1871-1880	290
Pneumonia, Deaths from, in Feb. and Mar., and Coincident Meteorology	287 904-907
Population in 18-90, and Births, Marriages, and Deaths in 1880, by Countiesxx.	
Population in 1880, by Counties, Represented by Births in 1880.	23-30
Population of Townships, not Represented by Births in 1880	63
Pressure of Atmosphere, by Months, for Different Years, 1871-1880	260-261
Prevailing Winds, Relative Humidity, Ozone, etc., by Months	262
Prussia, Inhabitants to One Marriage in,	99
q.	
Quarter, Month, Week, Day, Average Number of Births per,	2
Quarter, Month, Week, Day, Average Number of Deaths per,	104
Quarter, Month, Week, Day, Average Number of Murriages per,	71
В.	
Relations of Deaths of Children to Births, by Months	134
Rheumatism, Deaths from, in 1880	235, 283
Rhode Island, Mass., and Mich., Months of Deaths in, in Order, Greatest Number first	109
Russia, Inhabitants to One Marriage in,	99
S.	
Saxony, Inhabitants to One Marriage in,	99
Scarlet Fever, Deaths from, in 1880	
Scarlet Fever, Most Prevalent during Nov., 1880	284
Secretary of State's Letter of Transmittal of this Volume to the Governor	
Sex of Children	64
Specified Causes of Deaths, by Months, Sex, and Ages, 1875-1880	
Spain, Inhabitants to one Marriage in,	201, 201 99
Specified Occupations of Decedents from Consumption.	
Still-born Children,	
Still-births, Number and Proportion of, by Nativity and Color of Mothers, 1878-1880	58
Still-births, Occupations of Fathers of, 1880.	54
Still-births, 1872-1880, Proportion of, to Total Births	58
Still-births, by Counties	61 129
Suicide, Deaths from, in 1880	
Sweden, Inhabitants to One Marriage in,	99
T.	
Table of Contents of this Volume	iilv.
Table I.,—Marriages, Births, Deaths, and Excess of Births over Deaths, by Periods of Time.	xii.
Table I.,—Births by Quarters of the Year for each of the Years 1875-1880, as Returned, and as Corrected.	
Table I., -Marriages by Quarters for each of the Years 1875-1880, by Number and Per Cent. of,	79

	PAGE.
Table I., Deaths by Quarters of the Years 1875-1880	
Table II.,-Births, Marriages, and Deaths in 1890, and Population in 1880, by Countlesx	
Table II.,—Births by Months for each of the Years 1875-1880	
Table II.,—Marriages by Months, in Order of Greatest Number first, for 1877-1880	
Table II.,—Deaths by Months, in Order, Greatest Number first, for 1875-1880	
Table III., - Exhibiting the relation between Births in 1880, by Months, and Marriages i	
Months of their Cenceptions	
Table III.,—Marriages by Counties, by Months	
Table III—Number and Per Cent, of Deaths, by Months, by Sex	
Table IV.,—Births by Countles, by Months, by Sex	
Table IV.,—Color and Sex of Persons Married	
Table IV.,—Deaths by Periods of Age, Sex, and Proportion of the Sexes	
Table V.,—Births by Color, by Sex, and Proportion of the Sexes	
Table V., —Marriages by Counties, by Color	
Table V., - Deaths by Periods of Age, by Sex, by Months	
Table VI.,—Births by Counties, by Color, by Sex	. 23-30
Table VI.,—Nativity of Persons Married in 1880	. 82
Table V1.,—Deaths by Ages, by Sex, by Months.	
Table VII.,—Parent-Nativity of Births in 1880, by Sex, Number, and Proportion	. 81
Table VII., -Marriages by Periods of Age, by Sex	
Table VIII.,-Births by Countles, Parent-Nativity, and Sex	
Table VIII., Marriages by Counties, Nativity, Sex, and Periods of Age	
Table VIII., - Deaths of Children Aged Under one Year, etc., - Diagramatic Table	
Table IX.,—Twin Children, by Pairs and by Individuals, in Order by Months, Greatest fire	
Table 1X.,—Marriages of Persons under 21 Years of Age, by Counties	
Table IX.,—Deaths of Centenarians, Details Concerning.	
Table X.,—Births of Twins by Parent Nativity, and by Scx	
Table X.,—Marriages by Periods of Age, by Sex	
Table X.,—Deaths by Counties, Months, Periods of Age, and Sex	
Table XI., - Parent-Nativity of Twins, by Sex, and Proportion of the Sexes	
Table XI.,—Marriages with Great Disparity of Ages, by Counties	
Table XI.,—Deaths by Color, by Sex, and Proportion of the Sexes	
Table XII., - Births of Twins by Parent-Nativity, Countles, Sex, etc.,	
Table XII., -Marriages 1874-1880, Corrected, by Counties	
Table XII., -Deaths by Counties, by Color, by Sex	
Table XIII,—Occupations of Fathers of Twins born in 1880	
Table XIII.,—Deaths by Counties, by Nativity, and Sex	
Table XIV.,—Still-births by Months, by Parent-Nativity, and Sex	
Table XIV.,—Deaths by Classes of Causes, Number and Per Cent. of, 1876–1880	
Table XV.,—Still-born Children, by Parent-Nativity, etc.,————————————————————————————————————	56
Table XV.,—Deaths by Geographical Divisions of the State, by Classes	187
Table XVI.,-Illegitimate Children by Months, Sex, and Parent-Nativity	58
Table XVI.,—Causes of Death—Nosological Arrangement, by Counties	168-197
Table XVII.,-Illegitimate Children by Color, by Sex, and Proportion of the Sexes	
Table XVII, -Specified Causes of Death	198-245
Table XVIII.,-Fifteen Principal Causes of Death in 1880	
Table XVIII.,-Illegitimate Children, Number and Proportion of, by Parent-Nativity	
Table XIX.,-Details concerning Triplet children	
Table XIX, - Deaths from Ten Specified Causes	
Table XX,-Males to 100 Females among Twins, and Illegitimates and Still-births, b	
Counties	-
Table XX.,-Per Cent. of Ten Specified Causes of Death in 1880.	
Table XXI.,—Townships from which no Returns of Births were Received, Showing Popul	
	,_ 00
Table XXI.,—Diarrhea and Dysentery, Deaths from, by Geographical Divisions	. 202
Table XXII.,—Relation of Conceptions, for Births in 1880 to proportion of each Sex	
Table XXII.,—Correlation of Consumption and Pneumonia, by Months	
Table XXIII.,—Conceptions for Births, Corrected, and proportion of the Sexes	
Table XXIII.,—Correlation of Consumption and Pneumonia by Periods of Age	
Table XXIV.,—Relation between Deaths and Conceptions as Returned, by Months, Equa	
lzed	
Table XXIV.,—Consumption, Pneumonia, Typhoid Fever, etc., by Geographical Divisions.	
Table XXV.,-Relation between Deaths and Conceptions, as Corrected and Equalized	
Table XXV.,-All Causes, Consumption, Pneumonia, Typhoid Fever, etc., by Counties	
Table YVVI - Deletion between Deaths as Corrected and proportion of Fach for Conceive	d As

	Page.
Table XXVL,—All Causes, Old Age, Aged 70 and Over, and Under 5	300-30 I
Sex Conceived	
Table XXVII.,-Old Age, Aged 70 and Over, Deaths at All Ages, etc., by Counties	
Table XXVIII Boys to 100 Girls among Total Births, Twins, Illegitmates, and Still-births	70
Table XXVIII, - Deaths from Consumption, by Occupation, Sex, Months, Periods of Age, etc. :	204-379
Table XXIX, Occupations of Decedents Aged 20 and Over, Classified	
Table XXX Barometric Pressure, Prevailing Winds, etc., by Months	262
Table XXXITemperature at Agricultural College, Great Changes in, etc	250
Table XXXII., Meteorology at Detroit, Alpena, Grand Haven, and Marquette, Mich.	263
Temperature, by Months, and for Different Years, at Agricultural College	56-257
Temperature, by Months, for each of the Tears 1871-1880	256
Ten Specified Causes of Death, Number and Per Cent. of	52-53
The Relations of Births, Marriages, and Deathsxiv	xvii.
Throat, Heart, Bowels, Brain, and Lungs, Diseases of.	
Townships Reported as having no Births in 1980	63
Townships from which no Returns of Burths were Received in 1909	62-G3
Townships in which it was Reported that no Deaths Occurred in 1890	130
Triplet Children born in 1890, details concerning	32
Twins, Born in 1878-1880, by Nativity and Color of Mothers.	43
Twin Children born in 1990	-51, 70
Twin Children, Proportion of the Sexes.	41, 61
Twins, Illegitimates, and Stili-births, Boys to 100 Girls among,	70
Twins, Males to 100 Females, in Order by Months, Greatest first	41
Twins, Occupations of Fathers of,	51
Twins, Parent-Nativity of, by Counties	44-50
Twins by Parent-Nativity, and Sex, Number and Proportion of,	42, 43
Typhoid Fever, Deaths from, in 1880	279-279
Typhoid Fever, Consumption, Pneumonia, Diarrhea, etc., by Geographical Divisions	
Typhoid Fever, Diarrhea, Intermittent Fever, Consumption, etc., by Counties	
U.	
United States, Inhabitants to One Marriage in,	99
v.	
Violent Deaths in Michigan	88, E96
₩.	
	_
Week, Day, Quarter, Month, Average No. of Births per,	3
Week, Day, Quarter, Month, Average No. of Marriages per,	71
Week, Day, Quarter Month, Average No. of Deaths per,	)04 
Whooping-cough, Deaths from, in 1880	WE-230
<b>2.</b>	
Zymotic Diseases, Deaths from 1990	198. 19E

		•

	PAGE.
Table XXVI., -All Causes, Old Age, Aged 70 and Over, and Under 5	300-301
Table XXVII.,—Relation of Deaths as Equalized, to Conceptions, and Proportion of Each Sex Conceived	69
Table XXVII.,-Old Age, Aged 70 and Over, Deaths at All Ages, etc., by Counties	302, 303
Table XXVIII.,-Boys to 100 Girls among Total Births, Twins, Illegitimates, and Still-births	70
Table XXVIII., - Deaths from Consumption, by Occupation, Sex, Months, Periods of Age, etc.	304-319
	322-330
Table XXX.,-Barometric Pressure, Prevailing Winds, etc., by Months	262
Table XXXI—Temperature at Agricultural College, Great Changes in, etc	258
Table XXXII.,-Meteorology at Detroit, Alpena, Grand Haven, and Marquette, Mich	263
	256-257
Temperature, by Months, for each of the Years 1871-1880	256
Ten Specified Causes of Death, Number and Per Cent. of,	252-253
The Relations of Births, Marriages, and Deathsxiv	xvii.
Throat, Heart, Bowels, Brain, and Lungs, Diseases of,	164-165
Townships Reported as having no Births in 1880.	62
Townships from which no Returns of Births were Received in 1886	62-63
Townships in which it was Reported that no Deaths Occurred in 1880	138
Triplet Children born in 1880, details concerning	52
Twins, Born in 1878-1880, by Nativity and Color of Mothers	43
Twin Children born in 1880	1-51, 70
Twin Children, Proportion of the Sexes.	41, 61
Twins, Illegitimates, and Stili-births, Boys to 100 Girls among,	70
Twins, Males to 100 Females, in Order by Months, Greatest first	41
Twins, Occupations of Fathers of,	51
Twins, Parent-Nativity of, by Counties	44-50
Twins by Parent-Nativity, and Sex, Number and Proportion of,	42, 43
Typhoid Fever, Deaths from, in 1890	
Typhoid Fever, Consumption, Pneumonia, Diarrhea, etc., by Geographical Divisions	296-297
Typhoid Fever, Diarrhea, Intermittent Fever, Consumption, etc., by Counties	298-299
U.	
United States, Inhabitants to One Marriage in,	99
v.	
Violent Deaths in Michigan	188, 196
w.	
Week, Day, Quarter, Month, Average No. of Births per,	2
Week, Day, Quarter, Month, Average No. of Marriages per,	71
Week, Day, Quarter Month, Average No. of Deaths per,	104
Whooping-cough, Deaths from, in 1880245,	252-258
Z.	
Fematic Diseases Deaths from 1990 160 167 169 179 170	100 100

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